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INDEX.

	Page.
Mayor's Message	3
Corporation Officers	73
City Register	101
Department of Finance	157
City Comptroller	201
Judges Appeal Tax Court	313
Health Department	329
City Solicitor	481
City Librarian	493
Water Department	501
Commissioners for Opening Streets	583
Inspector of Illuminating Gas and Kerosene Oil	591
City Collector	601
Fire Commissioners	621
Trustees of the Poor	701
Park Commission	755
Harbor Commission	819
Inspector of Buildings	851
General Superintendent of Lamps and Inspector and Sealer of Gas Meters	885
City Commissioner	897
Visitors to the Jail	921
McDonogh Educational Fund Trustees	953
House of Reformation for Colored Children	1033
Public Schools	
Commission to inquire into the Public School System	

Baltimore. Mayor

THE MAYOR'S MESSAGE,

AND

REPORTS OF THE CITY OFFICERS,

MADE TO THE

City Council of Baltimore,

FOR THE YEAR 1879.

KING BROTHERS, CITY PRINTERS,

1880.

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MAYOR'S MESSAGE.

BALTIMORE, January 1st, 1880.

To the Honorable the Members of the
First and Second Branches of the City Council:

GENTLEMEN:

In accordance with the requirements of law, I submit the following message. It contains a statement of the present condition of this municipality; the operations of its different departments during the year ending December 31st, 1879, and some suggestions which, if adopted, will, in my judgment, improve the city and better its government.

The Financial Condition of the Corporation Dec. 31st, 1879.

Amount of funded debt December 31st, 1879.....	$33,531,798 06
Amount of guaranteed liabilities December 31st, 1879.....	1,492,000 00
	$35,023,798 06

267355

Amount brought forward.		$35,023,798 06
Less cash in bank in reserve for the redemption of Water Stock of 1875		6,646 33
Total debt bearing interest		$35,017,151 73
Of this amount interest is provided from the following sources:		
Water Loans of 1894 and 1916, interest paid by revenue from water rents	$8,621,200 00	
Park Loans, interest paid by City Passenger Railway Companies	555,566 25	
		9,176,766 25
		$25,840,385 48
And from the following productive and interest-bearing assets:		
Mortgage on the Baltimore and Ohio R. R. Co	$5,000,000 00	
Mortgage on the Union R. R. Co	117,000 00	
Mortgage on the Western Md. R. R. Co., (First)	200,000 00	
Amount carried forward.	$5,317,000 00	

Amounts brought forward	$5,317,000 00	$25,840,385 48
32,500 Shares of Baltimore and Ohio R. R. Stock, paying a dividend of 8 per cent., capitalized at 6 per cent.....	4,333,333 33	
Value of Sinking Funds...	7,423,727 11	
550 Shares of Baltimore and Reisterstown Turnpike Co., valued at.....	1,925 00	
625 Shares of Baltimore and York Turnpike Co. Stock..	4,317 67	
120 Shares of Baltimore and Havre de Grace Turnpike Co. Stock.....	4,000 00	
137 Shares of Baltimore and Frederick Turnpike Co. Stock.....	206 00	
Market Houses:		
Annual rental. $45,000 00		
Wharf Property:		
Annual rental. 45,000 00		
Real Estate:		
Annual rental. 19,866 86		
$109,866 86		
Capitalized at 6 per cent. is..	1,831,114 33	
		18,915,623 44
Balance of debt over and above available interest-bearing securities...		$6,924,762 04

The unproductive assets of the city are as follows:		
Mortgages on the Western Maryland R. R. Co.....	$2,175,000 00	
Interest Coupons paid for Western Md. R. R. Co...	1,038,192 57	
10,000 Shares Valley R. R. Co. of Va., par $100.....	1,000,000 00	
4,000 Shares Western Md. R. R. Co., par $50.....	200,000 00	
7,600 Shares Baltimore and Susquehanna Tidewater Canal Co. Stock, par $50.	380,000 00	
714 Shares Baltimore and Hall's Springs R. R. Co. Stock, par $20.....	14,280 00	
		$4,807,472 57

Besides other property, such as—

Court House, Record Office, City Hall, Jail, Police Stations, Fire Engine Houses and Apparatus, School Houses, Almshouse, Steam Tugs, Marine Hospital Grounds, Public Parks, &c.

COMPARISON OF THE DEBT DECEMBER 31ST, 1879, WITH THE DEBT DECEMBER 31ST, 1878.

Amount of Funded and Guaranteed Debt December 31st, 1879...	$35,017,151 73
Amount of Funded and Guaranteed Debt December 31st, 1878...	33,951,951 73
Increase of debt during the year.....	$1,065,200 00

The increase of the debt was caused, as follows:		
Stock issued for Jones' Falls improvement, 6 per cent....	$44,100 00	
Gunpowder Water Supply Stock, 5 per cent.....	841,500 00	
Funding Loan of 1916, 5 per cent.....	90,000 00	
Jones' Falls Improvement Stock, 5 per cent.....	89,600 00	
		$1,065,200 00

The premium realized by the city on the sale of this stock amounted to $55,008.75.

COMPARISON OF FINANCIAL STATEMENT OF DECEMBER 31, 1879, WITH FINANCIAL STATEMENT OF DECEMBER 31, 1878.

The Funded and Guaranteed Debt on December 31, 1879.....		$35,017,151 06
Productive or interest-bearing assets from which income is derived to meet the interest on the debt.....		28,099,036 02
Amount of debt, less the means of paying the same.....		$6,924,762 04
The Funded and Guaranteed Debt on December 31, 1878.....		$33,951,951 73
Productive or interest-bearing assets from which income is derived to meet the interest on the debt		23,942,751 78
Amount of debt December 31, 1878, less the means of paying the same.....		$10,008,467 95

It will thus be seen that although the actual debt of the city has increased during the past year $1,065,200.00, the value of the available or interest-bearing securities from which income is derived by the city has increased $4,156,284.24. This is due to the fact that the increased income derived from water rents has enabled the city to meet, from this source, the interest required for the payment of the interest on the bonds issued for the Gunpowder supply; the increased income derived from the city's interest in the stock of the Baltimore and Ohio Railroad Company, from 6 per cent. in 1878 to 8 per cent. in 1879, which enables the city to meet the interest on $4,333,333.33 of its debt in 1879, instead of on $3,250,000.00, as in 1878, and the increase during the past year of $444,761.91 in the Sinking Fund.

An examination of the statement of the indebtedness of the other large cities in the country will show that there is not one of them with so small an indebtedness over and above its available or interest-bearing securities as is shown by the balance sheet of the city of Baltimore. With a population of nearly 400,000 people, our actual indebtedness is only $6,924,762.04.

SINKING FUNDS.

The following table gives the amount of the sinking funds held by the Commissioners of Finance for the redemption of the debt:

General Sinking Fund	$7,091,719 96
Public Park Sinking Fund	323,906 49
Hillen Station Sinking Fund	8,100 66
Value of Sinking Funds December 31st, 1879	$7,423,727 11

Amount brought forward	$7,423,727 11
Amount of Sinking Funds December 31st, 1878	6,978,965 20
Showing an actual increase of the Sinking Fund, derived from accruing interest and other sources, for year ending December 31st, 1879	$444,761 91

RECEIPTS AND EXPENDITURES.

The following table will show the receipts of the city from collection of taxes and other sources applicable to the support of the City Government for the year ending December 31, 1879:

From City Collector, levy of 1879	$2,401,933 23	
From City Collector, levy of 1878, and previous years	1,431,814 77	
		$3,833,748 00
From Public Schools, tuition fees, &c.		47,109 27
From wharfage		26,788 15
From markets		50,934 51
From sundry regular sources		86,145 97
From Baltimore and Ohio Railroad Company dividends		253,662 50
Actual income		$4,298,388 40

The following table will show the actual expenses of the City Government for the year ending December 31, 1879:

Interest on the stock debt	$1,014,527 47	
Expenses of Courts, Jail, Registration of Voters, &c.	232,287 97	
Amount carried forward,		$1,246,815 44

Amount brought forward	$1,246 815 44
Public Schools, salaries and expenses	460,320 81
Public Schools, new buildings and repairs	46,897 22
City Poor	160,244 35
Sinking Funds	8,735 82
Harbor Commission	140,013 40
State Police	584,719 01
Health Department	246,317 50
Fire Department	163,035 22
Inspector of Public Buildings	9,864 90
City Commissioner's Department	135,694 78
Department of Lamps	131,125 67
Lamplighters	42,432 00
Discount on taxes and interest on temporary loans	140,557 69
City Council expenses	50,006 98
Salaries	64,000 21
General expenses, being the aggregate of sundry items	186,406 86
Coupons paid for Western Maryland Railroad	555 00
Total actual expenses of City Government for year ending Dec. 31, 1879	$3,817,742 86

Expenses of the City Government for year ending December 31, 1878	$4,658,022 59
Expenses of the City Government for year ending December 31, 1879	3,817,742 86
Reduction in the expenses of the City Government in year 1879 from the expenses of year 1878	$840,279 73

The expenses of the City Government for the year ending October 31, 1875, were	$4,921,261 61
For the year ending October 31, 1876	4,871,866 55
For the year ending December 31, 1877—14 months	5,800,286 85
For the year ending December 31, 1878	4,658,022 59
For the year ending December 31, 1879	3,817,742 86

The above tables show a most gratifying reduction in the expenditures of the City Government during the past year. This is due to the fact that no appropriations were made after the levy was fixed by the City Council, and also to a determination on the part of the Mayor and City Council that during the past year the doctrine should be, to quote from my last annual message, "when individuals were using every means to reduce their expenditures, it was the duty of the authorities to aid the taxpayer in his personal economies by reducing, as far as practicable, the amount required for the support of the City Government."

I commend the example of economy practiced by the last City Council, which has produced such gratifying results, to the consideration of your honorable bodies.

FLOATING INDEBTEDNESS.

The estimated collection of taxes made by the City Council of 1879, on a basis of $240,000,000, was as follows:

Estimating a collection of 70 per cent. of current taxes on a levy of $1.50	$2,520,000 00	
Estimate of collection of taxes in arrears.....	1,600,000 00	
		$4,120,000 00
Actual amount collected:		
Collection of current taxes $65\frac{61}{100}$.....	2,401,933 23	
Collection of taxes in arrears.....	1,431,814 77	
		$3,833,748 00
Deficiency in amount collected from amount estimated.....		$286,252 00

At the close of the year 1878, the floating indebtedness was $622,649.18. The report of the City Register shows that on December 31st, 1879, the floating indebtedness amounted to $296,370.28. It will thus be seen that although the estimates of collections made by the last City Council were not realized by $286,252.00, yet the reduced levy from $1.90 in 1878 to $1.50 in 1879, was not only sufficient to meet all the necessary expenses of the City Government and the appropriations made by the Council, but it has actually reduced the floating debt to the extent of $326,278.90. Had the estimates been realized, the entire floating indebtedness would have been paid and a surplus left in the treasury. But while the estimated collections during the year 1879, did not meet the expectations of the Mayor and City Council, the uncollected taxes still remain as a

valuable asset upon the books of the City Collector's office, and will hereafter be realized. A further examination of the City Register's report will show that the amount of these taxes in arrears, now due and uncollected, is $2,545,017.70. It can hardly be said, therefore, that with such an asset, the city now has any floating indebtedness.

REQUIREMENTS FOR THE CURRENT YEAR.

The estimated requirements for the current year of 1880, as shown by the Register's report in statement marked B, are.....	$5,359,057 55
And the receipts as per statement C.....	2,697,823 00
Leaving the amount to be levied for...	$2,661,234 55

This is estimating a collection of only $1,100,000.00 of taxes in arrears, out of an amount due of $2,545,017.70.

The estimated requirements for 1880 to be levied for is less by the sum of $424,233.60 than the estimates made of requirements for the year 1879, and less by $1,817,451.50 than the estimated requirements for the year 1878. This certainly indicates a new and healthy departure from the expenditures of former years, and it remains with your honorable body, by a strict economy in the matter of appropriations, to see that the expenses of the City Government are not largely increased. You have it in your power to effect a still further reduction in the present tax rate.

CITY COMPTROLLER AND CITY REGISTER.

The report of the City Comptroller, which is, as is also that of the City Register, a most carefully prepared document, gives in detail every item of the receipts and expenditures of the City Government. From these two papers, the statements of accounts and figures which I have heretofore given, are obtained. Both of these officers commend the spirit of economy that has prevailed in the City Government during the past year. Comptroller Vansant says, in his report: "In the matter of indebtedness, at least, the city is certainly in a much better condition than it has been for several years. * * * * * * It is in the highest degree creditable to the intelligence of the legislative department of the City Government to be enabled to say that for the first time in the history of the City Council for many years, it made no appropriations of money whatever to be used in 1879, that were not provided for in the tax levy." And I may add here, that the Comptroller assures me, that not a single department of the City Government has exceeded in its expenditures the amount appropriated for its use. Your honorable body will not, therefore, be called upon to commence your session with the consideration of a large deficiency bill.

CITY COLLECTOR.

The report of the City Collector shows that the City and State taxes collected for the year 1879, amounted to $4,329,146.07, of which there was collected for the City $3,935,905.78, and for the State $393,240.29.

The following table gives the amount of taxes collected on account of the city for the last four fiscal years:

Amount collected for the city for the year ending October 31, 1876.....	$4,089,340 83
Amount collected for the city for the year ending December 31, 1877, 14 months..	4,649,193 12
Amount collected for the city for the year ending December 31, 1878.....	4,099,144 00
Amount collected for the city for the year ending December 31, 1879.	3,935,905 78

A reason for the reduction in the amount collected for 1879, was the reduced rate of the tax levy from $1.90 in 1878, to $1.50 in 1879.

The following table gives the taxable basis for the past four years:

Taxable basis for year ending October 31, 1876.....	$228,816,110
Taxable basis for year ending October 31, 1877.....	256,105,341
Taxable basis for year ending December 31, 1878..	249,266,595
Taxable basis for year ending December 31, 1879	244,043,181

At the close of the year 1879, after all abatements had been made, by reason of the decisions of the

Courts, on account of railroad property, &c., &c., the taxable basis for 1876, 1877, 1878, 1879, was as follows:

For 1876	$223,402,195
" 1877	241,093,065
" 1878	236,990,805
" 1879	244,043,181

It will thus be seen that the taxable basis for 1879 has increased $7,052,376. The collection of taxes for 1879 has been at the rate of $65\frac{61}{100}$ of the levy, producing from current taxes, $2,401,933.23, and from taxes in arrear, $1,431,814.77; the balance—$102,157.78—was collected as assessments for opening, closing, widening and paving streets, lanes and alleys. In 1878, the amount of the levy collected on December 31st was only $60\frac{97}{100}$. The report of the City Collector gives a detailed statement of all money received through his office.

The City Collector urges some action on the part of the Council to enforce a prompt collection of taxes in arrears. Although the present law may permit the enforcement of payment of taxes at any time after they become due, the fact that they are not barred by limitation for three years thereafter, has given an impression that the debtor is entitled to the full extent of this indulgence. It is therefore suggested, that the Council, by ordinance, shorten the time allowed for said collection. This is especially necessary in connection with personal taxes. The Collector also recommends a renumbering of the houses in the city.

THE APPEAL TAX COURT.

The report of the Appeal Tax Court shows that the number of permits issued for the erection of new buildings during the year was 868, and for additional improvements 594. The following table gives the number of new buildings and improvements, with their assessed cash value, put up in Baltimore during the last four years:

	New Buildings.	Improvements	Cash Value.
From November 1, 1875, to November 1, 1876...	1,035	290	$2,154,250
From November 1, 1876, to January 1, 1877—14 months.....	1,189	375	2,849,500
From January 1, 1877, to January 1, 1878.....	967	406	2,037,855
From January 1, 1878, to January 1, 1879	868	594	1,671,335

The assessed valuation made by the Court on shares of the capital stock of banks and other corporations, held by residents and non-residents, was $20,734,184, being less by $546,300 than the valuation for the year 1878.

The abatements made during the year are shown by the following table:

From the assessment of 1875.....	$622,544
From the assessment of 1876.....	1,358,210
From the assessment of 1877.....	11,612,273
Amount carried forward.....$$	$13,593,027

Amount brought forward.....	$13,593,027
From the assessment of 1878...	12,817,785
From the assessment of 1879...	15,609,645
Total.....	$42,020,457
In 1878 the abatements made were...	16,262,139
Excess of abatements in 1879.	$25,758,318

This large amount of abatements from the taxable basis made during the past year was mainly due to the result of the decision of the Court of Appeals in the Railroad Tax cases.

The amount of personal property added to the taxable basis during the year, by assessments made by the bailiffs, has been $999,428.

Under the provisions of an ordinance passed in 1878 two additional assessors were appointed to assist the Appeal Tax Court in reviewing the general assessment of 1877. These assessors have been actively engaged in their duties. Their report gives the following table:

Number of pieces of property re-assessed 737.	
Amount of increase recommended.....	$3,421,454
Less abatements on improvements...	544,631
Net increase recommended.....	$2,876,823

The judges of the Appeal Tax Court call especial attention to the large amount of property, both real and personal, in the city, which, on account of special State legislation, is now exempt from taxation.

CITY COMMISSIONER'S DEPARTMENT.

The report of the City Commissioner gives a detailed statement of the work done in this department.

The amount of cobble-stone pavement laid during the year was 428,125 square feet, a decrease of 206,075 square feet in the quantity put down during 1878. There was no paving with Belgian blocks. The money appropriated for repairing streets was carefully expended, and made to do as much work in that line as practicable. Many of the old cobble-stone pavements are so thoroughly worn out, that they are beyond the reach of repair, and should be replaced by new Belgian blocks. If only one street was paved with these blocks during the year, it would be better than a continued endurance of the antiquated cobble-stones.

It is recommended, that in repairing some of the streets, to repave the centre of the street, where travel is greatest, and where the cobble-stones are actually worn out, with Belgian blocks, even if ten feet on either side is left with cobble-stones.

The City Commissioner urgently recommends the extension of the Shroeder's Run sewer to tidewater by a different route than a continuation of its present line. This will require the condemnation of a right of way. At present the water from this sewer, during heavy rains, unites with that from Carroll's and Chatsworth's Runs, doing much damage to the adjoining property. The construction of the sewer commencing on the corner of Albemarle street and Eastern avenue, required by resolution, approved May 8th, 1879, has not been proceeded with, for the reason that the old sewer on Eastern avenue is insufficient to carry off the water

which would enter it from the new sewer. It will, therefore, be necessary to rebuild and enlarge the old sewer before carrying into effect the requirements of the resolution.

In connection with the Chatsworth Run sewer, the Commissioner recommends a change in the grade of the streets at the intersection of Fremont, St. Peter and south Paca streets, and making additional inlets. The Chatsworth Run sewer will require repairing between Baltimore and Portland streets, and between Lombard and King streets. The work of opening and grading North avenue from Greenmount to Belair avenue has been completed. This is a most important improvement and cannot fail to be followed by a large increase in the value of property in that vicinity. The work of paving North avenue, from Pennsylvania avenue to Jones' Falls, is now ready to be put under contract. This is an improvement that has long been demanded by the public. It has been delayed from time to time on account of the want of necessary legislation, which was at last obtained, to compel the owners of property in the county, immediately binding on the north side of the avenue, to contribute to the expense, (a strong argument in favor of the annexation of the belt.) In connection with this improvement, the City Commissioner recommends the construction of a sewer commencing at the intersection of Druid Hill avenue; thence extending along North avenue to McMechen street, and along McMechen street to Jones' Falls. This sewer will carry off the surface water, which, in heavy rains, cannot fail to be destructive to the bed of

the avenue; and although expensive, should certainly be constructed before the improvement of the avenue is proceeded with.

The reconstruction of what is known as Harman's bridge is also recommended, to avoid the constant requirement of repairs consequent upon its present dilapidated condition.

IMPROVEMENT OF JONES' FALLS.

The Mayor and City Commissioner have been by ordinance appointed a Commission for the improvement of Jones' Falls. During the past year the work of the Commission was as follows: The Lombard street bridge has been completed. The falls have been thoroughly dredged from the City Dock to Baltimore street. The retaining walls on the west side of the falls, and on the south side of the City Dock, will be completed during the coming season, and thus constitute a continuous line of well-built retaining walls from Fayette street to the outlet of the falls.

A visit to the lower end of the falls, where it enters with the new curved line into the Back basin, will satisfy an observer that the work in that vicinity has been a most important improvement. The new drawbridge at the entrance of the falls into the harbor, south of the back basin, is now rapidly approaching completion. Much delay was caused by adverse weather, high tides and unanticipated difficulty in the work of removing the old piles of the former bridge; but the public will be amply repaid for all this annoyance in the great improvement made to the neighborhood by the con-

struction of the new drawbridge. The bridge itself will be of a most substantial character and improved plan. The channels on either side will be nearly seventy feet in width, affording a clear passage to the largest class of vessels; while the grade will be two feet higher than the old bridge, thus allowing canal boats and barges to pass into the Back basin without opening the draw.

Under the authority granted by the City Council, the Commission have begun the construction of the bridges over the falls at North, Calvert and St. Paul streets. These three most important public works, although expensive, will, in my judgment, within a very few years, amply repay the cost of construction by the enhancement of the value of property in that neighborhood. The bridges were designed by Mr. Charles H. Latrobe, Civil Engineer, and for beauty, strength, excellence of work and cheapness of cost, will favorably compare with any similar public work in the country. The North and Calvert street bridges will be completed during the early spring, and the St. Paul street bridge during the latter part of the summer. The dimensions of these bridges are as follows:

North street bridge—length, 346 feet 6 inches; width, 60 feet; divided into two spans of 173 feet 3 inches wide, each.

Calvert street bridge—length, 571 feet 3 inches; width, 60 feet; divided into two arched spans 114.4 and 146 feet respectively, and two viaducts, resting on iron columns, 195.11 and 115 feet long, each.

St. Paul street bridge—length, 693 feet; width, 60 feet; divided into two arched spans of 108 feet and

276.6 each, with a viaduct of 308.6, supported on iron columns.

The piers and abutments of these bridges are all of the best style and quality of granite masonry. The superstructures will be of iron, and the floors of asphalt, laid upon iron plates. In addition to crossing the falls, they pass entirely over the grounds and tracks of the Potomac Railway.

The work remaining to be done upon the falls is the building of retaining walls between Hillen and Low streets; the rebuilding of the bridges at Pratt and Gay streets, and the construction of a new bridge at Chase street. This latter is a most needed improvement. The erection of the bridges at St. Paul, Calvert and North streets have directed attention to the necessity of the construction of a retaining wall on the south side of the falls, between the abutments of the three bridges. This line is now used as a common dumping-ground; and every heavy rain carries the loose soil and refuse down into the Back basin, where it must be dredged out at a large cost. Economy, as well as the improvement of this ragged and dirty bank of the falls, in connection with the erection of these great bridges, requires that this wall should be proceeded with in the spring.

I recommend that authority be granted by your Honorable Body, for the expenditure of an additional amount of the unexpended balance of the Jones' Falls Improvement Fund, that the work of improvement may be pushed forward to final completion.

HARBOR BOARD.

The working of this department during the past year is fully set forth in the report. The wonderful increase

in the commerce of this port, while due to the advantages of our geographical position and the enterprise of the great railroad corporations that have connected the West with the tidewater of the Patapsco, and established in Baltimore terminal facilities for the transfer of merchandise from rail to shipboard, superior to those of any other city on the Atlantic, is also indebted to the quiet working and digging on the part of the Harbor Board, which has, by giving a proper depth of water in our harbor, enabled any vessel that can enter the port of New York to come to Baltimore.

I am sure that many generations would have passed away before the old City Yard system could have accomplished such a result.

In view of the great practical results produced by this department, I earnestly recommend a continuance of liberal appropriations in this direction.

The amount of mud removed from the harbor during the past year was 449,773 cubic yards, at an average cost of 17 7-10 cents per cubic yard, including all salaries and wages, expenses and repairs of tug, and all incidental and office expenses.

The excavations were distributed as follows:

From head of basin.....	8,019	cubic yards.
From upper middle ground.....	310,783½	" "
From Back basin and other docks..	52,661	" "
From channels in middle branch...	78,309½	" "
Total.....	449,773	cubic yards.

This amount of deposit was removed from an area covering 1,549,000 square feet, over which the average depth of cutting was 6 feet.

The result has been as follows:

The depth of 19 feet at low water has been extended over an area of 1,100 feet in length by 500 feet in width.

The Back basin has been maintained at 12 feet depth over three-fourths of its area.

Sewer deposits have been removed from docks at foot of William, Hughes, Montgomery, Broadway, Lancaster, and Leakin streets.

Forty (40) feet width has been added to channel from Boyce's wharf to Ferry (south side).

The cross-cut channel from Locust Point to Fell's Point has been widened over an area equal to 1,000 feet length by 700 feet in width.

The main channel from Locust Point to Fort McHenry has been widened 40 feet.

In the middle branch the main channel has been widened 40 feet, and side channels to "Ranstead's" wharf and gas-house have been widened and improved.

Also, a large quantity of the sewer deposit from Howard street and Chatsworth run has been removed; the deposit over an area of 180,000 square feet has been removed to 12 feet depth below low water.

The Harbor Board have also had the necessary repairs made at Bowly's wharf and Long dock; and also on the bulkhead surrounding the City Dock, and stone bulkheads built at the foot of Montgomery and Henry streets. The engineer of the board recommends the gradual substitution with stone of the present wooden bulkheads of City Dock—a suggestion which I cordially indorse. For this purpose an appropriation of $5,000 is asked for.

The iceboat "F. C. Latrobe" has been completed and thoroughly tested. The cost of construction was within the amount appropriated. The boat is now in thorough order and ready to enter upon service whenever required.

An ordinance will be submitted to the City Council giving authority to the Harbor Board to grant permits, upon application, for the construction or alteration of wharves within the Port Warden's line, where, in their judgment, the general interest will not be interfered with.

HEALTH DEPARTMENT.

The expenditures for this department for the year ending December 31, 1879, were.	$246,392 50
Expenses for year ending December 31, 1878.....	242,330 94
Expenses for year ending December 31, 1877—14 months.....	290,615 56
The amount received during the year 1879 from sale of refuse was.....	3,062 48
Receipts from same source in 1878.....	5,763 17

The report of the Health Commissioner states that the sanitary condition of the city has been very satisfactory during the past year. Estimating the population of the city at 393,796, the total number of deaths being 7,618, the death rate was 19.30 per 1,000. In 1878 the number of deaths was 6,733, which, on an estimated population of 365,000, was 18.44 per 1,000. Of the total number of deaths in 1879, 2,066 were under 1 year of

age; 762 between 1 and 2 years, and 557 between 2 and 5 years, making a total of 3,385 under 5 years. The Health Officer calls especial attention to these figures as showing that the high rate of mortality prevailing among children is suggestive of the importance of closer attention to sanitary and hygienic measures. In this connection he recommends an improvement in the system of drainage; a proper regard for habits of cleanliness, and the avoidance by parents of subjecting children to the danger of contact with others suffering or recovering from contagious diseases, or permitting them to frequent places where they may be exposed to effects of contagion. He recommends the passage of an ordinance preventing the use of hackney coaches as hearses at funerals, which being often done in cases of children dying from scarlet fever or diphtheria, is calculated to communicate the disease to others using the same carriage before it has had time to become thoroughly disinfected.

The attention of the City Council is called to the necessity of taking some measures looking to the establishment of a general system of sewerage, and the abolition of the old fashioned privy vaults which now actually honeycomb the ground upon which the city is built. When it is recollected that there are some eighty thousand houses within the city limits, each of which has one or more privy vaults, the extent of this dangerous nuisance can be realized. Sooner or later the construction of a proper system of sewerage must claim the attention of the municipal authorities. The Health Officer also urges the necessity of providing a means for the removal of night-soil from the city, the county

authorities have prohibited its deposit in the county, and the department finds itself much embarrassed in properly disposing of it. I suggest the passage of an ordinance authorizing the Health Department to contract for its removal in a similar manner as is now provided for the removal of garbage.

The Health Officer also again calls attention to the slaughter-house nuisance, and expresses the hope that some equitable arrangement may be devised resulting in the establishment of abattoirs, as has been found necessary in other large cities. The Harford Run sewer is also referred to; the enabling act to authorize the abatement of this nuisance having been voted for affirmatively by the people, is now before the Legislature, and on its passage the work will at once be proceeded with. The pump nuisance is also in course of abatement, and under the provisions of the ordinance passed by the last Council, it is hoped that these old-fashioned pumps, with their polluted and poisonous waters, will soon be removed or replaced by city water fountains. There is no more effectual hygienic or temperance measure in a city than a full supply of pure water. The report of the Health Officer contains very full and interesting details, as well as many valuable suggestions relating to the establishment of proper sanitary regulations. The weekly reports of this office are so well arranged, and so full in the detail of the health and death rate of the city, that they have served as models for other cities. The Secretary of the office has established regular exchanges of these weekly reports with all the principal cities of this country and Europe.

MARINE HOSPITAL.

The skilful physician (Dr. Howard) in charge of this hospital, gives a full report of the conduct of this most important department during the past year. When the attention of the entire country has been so earnestly directed to the necessary quarantine measures required to prevent the importation of infectious diseases, the opinions of so experienced an expert in such matters are worthy of consideration. Dr. Howard recommends that the pest hospital and quarantine hospital should be separated, and the latter removed to a further distance from the city. This seems to me a most proper suggestion, as the present quarantine hospital is too near the city. Should this not be deemed advisable, the Doctor then recommends the erection of some improvements in the way of comfortable buildings upon the grounds of the Marine Hospital, in order that persons suffering from contagious diseases, who are removed by the authorities to that establishment, may be properly accommodated. The grounds and buildings of the Marine Hospital are in a most dilapidated condition, and a small appropriation should be made to put them in decent order.

The following table, taken from Dr. Howard's report, is an evidence of the rapid increase in the commerce of this port:

Year.	Number of Vessels Inspected.	Receipts from the Quarantine Office.
1875	754	$4,365 53
1876	815	5,515 47
1877	876	5,672 79
1878	1,166	8,663 37
1879	1,251	9,888 09

FIRE DEPARTMENT.

If there is any one institution connected with the municipal government, of which the citizens have reason to be justly proud, it is the Baltimore Fire Department. Consisting as it does of only 13 engine and 3 hook and ladder companies, with a membership of 199 men, its efficiency and discipline have given it an enviable reputation at home and abroad. The expenses for maintaining this department during the past year were $155,993.66, within a few dollars of the amount appropriated, $156,000.00. This small cost is due in a measure to the excellent management of the Board of Fire Commissioners, and to the exemption of the city from any very serious conflagration. This latter cause I attribute also to the promptness and good discipline of the officers and men. Many of the fires that occurred, originated in thickly settled and business locations, where a few minutes delay, or a want of good judgment on the part of the chief or his assistants, might have resulted in a most disastrous loss of property. The Board of Commissioners in their report recommend an increase in the number of housemen, i. e. men required to be in constant attendance at the engine houses. The number of housemen now is three for an engine company and two for a hook and ladder company. There are nine hours in the day when, at some one of the engine houses, there are only two housemen on duty; and six hours in the day when, in one of the hook and ladder companies, there is only one houseman on duty, these being the hours allotted to the men for their meals. Should an alarm of fire occur at such times, the apparatus is delayed on

account of shortness of working hands. The Board, in its report, therefore, suggests the passage of an ordinance decreasing the number of men in each house from 8 to 7, and decreasing the number of men in each hook and ladder company from 10 to 9, and creating an additional houseman for each company. This plan, while not increasing the number of men in the department, will materially add to its efficiency. The Board also recommends the establishment of an additional hook and ladder company, to be located in the northwestern section of the city, near the intersection of Pennsylvania avenue and Biddle street, and the removal of hook and ladder company No. 2 to a locality in the neighborhood of Camden and Howard streets. This seems to be demanded by the rapid increase of the mercantile and manufacturing interests in the southern section of the city. The rapid improvement in the northwestern section also claims that better protection in case of fire be given than is now afforded. This matter is fully discussed in the report of the Board, as is also the proposition to remove No. 8 engine company from its present location to some point in the northern section of the city.

The Board also recommends a rigid enforcement of the ordinance preventing the managers of public places, churches and theatres, from blocking up the aisles and passages with chairs or stools, and suggests that authority be given to the Board of Fire Commissioners to have it enforced at all times. There are many other suggestions made in the report in connection with the better protection of life in public buildings and manufactories, which are commended to your consideration.

INSPECTOR OF PUBLIC BUILDINGS.

The amount placed to the credit of this department for the year ending December 31, 1879, was.....$69,369 96
Amount expended..... 56,911 40

Leaving an unexpended balance of.....$12,458 56

The receipts of the department from the issue of permits, erection of frame sheds, bay windows, steam boilers, &c., were $3,739 19. The estimated requirements for 1880 are $55,900. During the year a large and commodious school-house, with all the modern improvements, has been erected on the north side of Baltimore street, between East and Aisquith streets, which is now occupied by English-German School No. 3. Another building is now in course of erection on the northeast corner of Fayette and Green streets, on the lot formerly occupied by Male Grammar and Primary School No. 1. The public school buildings and market houses have all been kept in proper repair, as far as permitted by the amount of the appropriations.

By the provisions of ordinance No. 29, approved April 11th, 1879, the keeping in repair of the engine houses was intrusted to the Board of Fire Commissioners. The report of the Inspector, which is full of the details of the work accomplished by his department, contains, also, some valuable suggestions in connection with the necessity for providing for a re-numbering of houses in the city, and the passage of proper building laws, which are especially commended to your consideration.

Your attention is also called to the want of some necessary repairs on the City Hall. A further post-

ponement of this work may cause serious injury to the building. The details are all given in the report of the Inspector; and I earnestly endorse his recommendation for an appropriation to meet the required expenditure.

COMMISSIONERS FOR OPENING STREETS.

The report of this department gives the number of streets, with the names, opened during the year. It shows that the amount of benefits charged to the city was $57,753.25, and the amount of costs $6,957.36. In 1878 the charges to the city were: For benefits, $31,008.11, and for costs $8,543.58. As I said in my last message, "the opening of streets is a very expensive item to the city, especially since the repeal of the law requiring the street to be opened on the request of a majority of the adjacent property owners, and the costs paid by the parties especially interested." The Examiner of Titles, Mr. Gill, is now, at my request, preparing an ordinance to be submitted for your consideration, providing that benefits shall be assessed to the city in only those cases where it is specially so provided by the Mayor and City Council. Should this ordinance become a law it will have a tendency to put a stop to many charges imposed upon the city for streets, the opening of which are chiefly intended to benefit the owners of property in the immediate neighborhood.

PARK COMMISSION.

The report of the Park Commission gives the following statement of receipts and expenditures for the year ending December 31, 1879:

Balance on hand December 31, 1878	$4,180 04
Receipts from City Passenger Railway Company, less sinking fund	61,585 51
Receipts from Citizens' Passenger Railway Company, less sinking fund	13,846 25
Receipts from York Road Passenger Railway Company, less sinking fund	1,088 10
Receipts from Baltimore, Peabody Heights and Waverly Railroad Company, less sinking fund	5,656 64
Rent of Mansion House, sundry sales, fines, &c	4,853 78
Paid by Water Board for laying pipes	758 06
	$91,968 38
Less amount required for interest on Park Stock	33,333 96
Total applicable to maintenance of Parks	$58,634 42
Amount expended for the maintenance of Druid Hill and Patterson Parks for year ending December 31, 1879	56,204 57
Balance due the Park Board	$2,429 85

The number of visitors to Druid Hill Park were as follows:

Double carriages	90,166
Single carriages	183,539
Equestrians	18,542
Pedestrians	614,827
Schools and private parties, number of persons	13,400

No appropriations have been made during the year for the maintenance and improvement of Druid Hill and Patterson Parks; the revenue used by the Commission for this purpose being derived from the receipts from the city passenger railway companies and the sales of sheep and deer from Druid Hill Park.

The number of persons availing themselves of the benefits and pleasure of these parks attest their popularity, and shows the wisdom of the city authorities in their establishment, and especially vindicates the far-sighted policy which provided for their support without a heavy annual draft upon the tax levy. The most important improvement in connection with Druid Hill Park has been the opening of the new approach from North avenue through the property of the Water Board. This was done with the assent of the owners of land bounding on the west of what is known as the Mount Royal avenue. By this improvement Mount Royal reservoir, with the property immediately around it, is now included within the limits of the Park. The iron railing formerly used on two of the Mount Vernon squares has been utilized for enclosing in part this new addition to Druid Hill. The railing of the other Mount Vernon squares, which has been sold to the Park Commission, will be removed in the spring to complete this work. A plan has already been prepared for a gateway to the new entrance, immediately opposite the junction of Oliver street with North avenue. It will be erected as soon as the park revenue will permit. The fish ponds constructed in Druid Hill Park by the State Fish Commission have proved a complete success, and the carp imported by the United States and

placed in these ponds by Major Ferguson, the State Commissioner, have greatly multiplied, and are now being distributed in Maryland waters. The flock of Southdown sheep which has become so noted for the purity of its breed, and which form one of the attractions of Druid Hill, has, during the past year, been a source of some revenue to the park fund. Besides the annual sales of the ram lambs, the Commission have supplied the city of Philadelphia with a flock of forty ewes and one ram for Fairmount Park. With a view of still further improving the Druid Hill Southdowns, the Commission have imported two rams, purchased by the Hon. John Merryman in person, from the most celebrated flock of sheep of this breed in England. These Southdowns have not only proved one of the most popular ornaments of the park, but through its means the farmers of this and neighboring States have been enabled to improve their sheep at very moderate prices.

At Patterson Park the conservatory continues to be one of the chief attractions. The large collection of rare and beautiful plants, to which many additions have been made during the past year, is well worthy of a visit. At the exhibitions of the Horticultural Society, the selection of flowers and rare plants sent from Patterson Park is always greatly admired. Riverside Park has been much improved, especially by the erection of the new fountain, which has been completed during the past year. A plan has been devised for the improvement of Federal Hill Park, which, by the action of the City Council, has also been placed under the management of the Park Commission. The report of the Commission gives a detailed account of its work

during the past year, and again calls the attention of the Council to the necessity of providing for the condemnation of the property in Druid Hill Park belonging to the Presstman estate.

WATER DEPARTMENT

The report of the Water Board gives the following statement of receipts and disbursements for year ending December 31, 1879:

Receipts from all sources during the year..	$1,436,533 77	
Balance on hand January 1, 1879.....	465,225 53	
		$1,901,759 30

Disbursements during the same period:

For Gunpowder Permanent Supply...	$838,387 26
For twelve months' interest on $8,621,200 Water Stock.	403,960 00
For working expenses.....	67,002 16
For Permanent Supply Distributing Main	64,803 85
For Distributing Main.....	33,934 03
For Lake Roland, (dredging).	23,797 24
For Fire Plugs.....	1,703 58
For Pumps and Fountains...	1,814 35
For Real Estate.....	1,062 11
For Gunpowder Real Estate.	933 75
Amount carried forward..	$1,437,398 33

Amount brought forward.	$1,437,398 33	
For Tools and Fixtures.....	191 39	
For Water Meters.....	1,818 05	
For Returned Money.....	1,538 44	
For Lake Clifton	42,115 95	
		$1,483,062 16

Leaving a balance to credit of the Water Board December 31, 1879, as follows:

To credit of Revenue Account.....	$293,848 48	
To credit of Gunpowder Permanent Supply	123,552 40	
To credit of Disbursement...	30 00	
In hands of Water Registrar.	1,266 26	
		$418,697 14
		$1,901,759 30

Amount derived from water rents, plumbing, interest on back rents, &c., $553,877.27, being an increase in collections for this year of $47,860.56. Amount from sale of Gunpowder Permanent Supply Stock, $882,656.50.

It will be seen from the above statement, that in 1879, the interest was paid from the revenues of the Water Board on $8,621,200 of bonds issued for the Permanent Gunpowder Supply.

The work of introducing the water of the Gunpowder river is rapidly progressing, and there is every reason to believe that before the end of another year the Gunpowder water will be flowing through the mains of this city.

The conduit line or tunnel leading from Loch Raven to Lake Montebello has been entirely completed from the latter lake to Shaft No. 2, a distance of six miles, and the shafts arched over and filled up. All that remains to be done of the tunnel is the arching between Shafts Nos. 1 and 2 for a distance of 1,750 feet. The entire length of this tunnel is 36,500 feet; its depth below the surface varying from 32 to 356 feet. 29,625 feet of the tunnel is cut through solid rock, requiring no arching; the remaining 6,875 feet will be arched with brick. The work at Loch Raven and Lake Montebello has been pushed forward as rapidly as practicable during the past year. At Loch Raven, two-thirds of the dam have been completed, and the gate chambers carried up one-third of the required height. This dam is built of heavy rubble masonry laid in hydraulic cement; the face of the dam being built of stones 3 feet deep by 2 feet thick and 4 feet long, many of them weighing over two tons each. The over-fall or passage-way for the water is 300 feet wide. The foundation of the dam is some 13 feet below the bed of the stream. Of the nine bridges spanning the stream running into the loch, six have been finished—the remaining three being well advanced towards completion. At Lake Montebello, the stone masonry of the gate chambers, as well as all masonry about the lake, has been finished. The white marble walls of the superstructure of the gate house are up, and the iron roof covering the same is under construction. The twenty-two iron gates that control the flow of water in the chambers have been put in place. What remains to be done is to finish the embankments at the upper and lower ends, and

also that on the North side. The height of this lake is 163 feet above tidewater, its uniform depth 30 feet, and its capacity 600,000,000 gallons of water. A tunnel nine feet in diameter has been constructed under the lake at a cost of $97,102.96, to divert the waters of a stream flowing through the valley in which the lake is located. During the past year the construction of Lake Clifton was determined upon, experience having demonstrated that the Gunpowder river is so frequently muddy during the year that it was necessary to increase the capacity for storage. This lake is situated on the Clifton estate of the Johns Hopkins University; it will be eliptical in shape, the long axis being 1,700 feet and the short one 1,200 feet. The roadway around the lake will be 50 feet wide, 150 feet A. M. T., and 4,400 feet long. The surface of water will be 163 feet A. M. T., its depth 31 feet, and capacity 265 millions of gallons. The gate chambers at Lake Clifton are pierced for six 40-inch cast-iron mains to supply the city. These mains will be laid under the bed of Washington street extended, through the Clifton estate, as laid down by the Johns Hopkins trustees, to the city limits, at the intersection of Washington street and Boundary avenue.

From this point the water will be circulated through the city. There has been delivered on the ground and paid for during the past year 814 forty-inch cast-iron pipes, sufficient to extend these mains from Lake Clifton to the city limits.

The total amount expended on the Gunpowder Permanent Supply, as shown by the books of the department to January 1, 1880, has been $3,582,757.60.

LAW DEPARTMENT.

The report of the City Solicitor gives a detailed statement of all the suits in which the city was a party that have been tried during the past year, together with a list of those pending in the Courts of Baltimore, the Court of Appeals and the Supreme Court of the United States. The law officers are to be congratulated upon their success in defending the city in the litigation in which it has been involved. In very few instances have the plaintiffs obtained verdicts, and in those only for small amounts. The cases have all been promptly tried, whether the city was either plaintiff or defendant. The report of the Solicitor states that there has been a marked diminution in the number of suits for damages arising by reason of obstructions on the streets. This is due to the wise legislation of the Council in requiring proper lights to be placed at all dangerous places and obstructions on the streets or sidewalks after nightfall, and exacting from all contractors a bond to hold the city harmless from damages due to any negligence on their part or that of their employees.

CITY LIBRARY.

This has become a most important department of the City Government. The saving to the city in the cost of the stationery now purchased through the Librarian for all the departments, as suggested in my first message, has far more than paid all of its expenses. The preservation and proper classification of all municipal papers has not only been of great convenience to par-

ties making investigations in regard to city business, but has, from time to time, been of great value to the city.

During the past year, the information obtained from old documents preserved in the library, and found by the Librarian, enabled the city to recover a very large claim from the general government. Numbers of citizens are constantly availing themselves of these facilities to search for old documents and papers, and the information thus obtained, has in many instances been found most important and valuable to their interests. In cases of search, where the assistance of the Librarian is required, it is suggested that a small charge be made by the city to assist in paying the expenses of the department. This will serve to prevent many persons from consuming the time of the officers, merely from motives of curiosity. These searches are often made in the room in the upper story of City Hall, where the old documents are kept, and frequently require many hours of the time of the Librarian or his assistant. A system of exchanges with all large cities in Europe, Canada and the United States, of city documents, has been inaugurated, affording the means of obtaining much valuable information in relation to municipal affairs. The report of the Librarian gives a detailed statement of the cost of stationery for all the city departments. The total expenditure for this purpose in 1879, being $6,081.37; in 1878 the cost was $7,921.94.

JAIL.

The expenses of the Jail for the year ending December 31st, 1879, were $44,542.12. If, however, there be

deducted from this, $3,680.53, the amount received from various sources, and turned into the city treasury by the Board of Visitors of the Jail, together with the sum of $1,088 still due by the United States Government to the city for maintenance of its prisoners during the past year, and the sum of $2,212.17 paid for repairs made in 1878, it will be found that the actual cost to the city of maintaining the Jail for the year 1879, was $37,561.42, a much smaller amount than has been expended on this institution for some years past. The number of prisoners committed during the year was 9,179, being 2,550 less than in the year 1878, when the number was 11,729. The daily average of prisoners in the institution was $332\frac{10}{12}$, while in 1878 the average was $392\frac{8}{12}$, in 1877, $424\frac{6}{12}$, in 1876, $457\frac{3}{12}$. This falling off in the number of prisoners is partially due to the relief afforded to the Jail by the establishment of the State House of Correction. The report of the Board of Visitors shows that during the past year the system of employing the prisoners at some industrial work has been successfully introduced, and although the amount received by the institution for the labor of the inmates is comparatively small on account of the reasons set forth in the report, the Board are led to believe that the effect will be beneficial to the prisoners by teaching them habits of industry, and encourage some effort on their part of reformation.

The report of the physician speaks highly of the cleanliness of the institution and its excellent sanitary condition, only three deaths occurring among the prisoners during the year. The good management of the Jail by the Board of Visitors is entitled to commendation.

BAYVIEW ASYLUM.

There were admitted to this institution during the year, 1,453 persons, the number of births was 38, aggregating a total of 1,491 receiving its benefits. The average number of inmates was $731\frac{10}{12}$, being $39\frac{5}{6}$ less than the average number of the preceding year. The amount expended for the maintenance of the institution was $54,926.91, from which should be deducted $1,885.59, received from sundry sources and paid into the city treasury, thus reducing the net cost for its maintenance for the year to $53,041.32, a cost per capita per annum of $72.47\frac{5}{7}$. The number of inmates on December 31st, 1879, was 764; on December 31st, 1878, it was 822.

The Board of Trustees of the Poor, under whose management this large institution is most admirably conducted, again call attention in their report to the necessity of providing additional accommodations for insane patients. A visit to the asylum will satisfy any one that this recommendation should be adopted. The present accommodations are totally inadequate for the purpose, and the dictates of humanity require that some improvement should be made. The erection of an additional building on the grounds of Bayview will enable the city to accommodate comfortably, with a proper classification, all of its indigent insane at a far less cost than is at present required. At this time the insane patients are distributed between Mount Hope, Spring Grove and Bayview.

The number of city patients at Mount Hope is....	55
" " " " Spring Grove is....	128
Total.	183

Which at the annual cost of $200 per capita, the sum paid by the city in accordance with the provisions of Ordinance No. 87, approved May 11th, 1875, amounts to an annual expenditure of $36,600. (By some strange anomaly, while the city is charged $200 per annum per capita, the counties are only charged $150.) The expense of maintaining the same number of patients at Bayview, at a cost of $72.48 per capita, would be $13,263.84; at a cost of $100 per capita, it would be $18,300.00. The estimated cost of a suitable building at Bayview is $50,000.00, an amount which would soon be repaid to the city by the diminished expense of properly providing for its indigent insane.

The report of the Board of Trustees of the Poor, with the recommendations therein contained, is worthy of your earnest consideration.

REFORMATORY INSTITUTIONS.

I have not yet received the reports from the House of Refuge, Saint Mary's Industrial School for Boys, or the Maryland Industrial School for Girls, but I am informed that these institutions all continue to be managed in their usual admirable and economical manner. The appropriations annually made for their benefit is undoubtedly advantageous to the community, saving it the expense of supporting persons who would otherwise become inmates of our jail and penitentiary.

The report of the House of Reformation for colored children is submitted for your consideration. The number of boys in this institution November 30th, 1879, was 177, of which a large number have been sent

from Baltimore city. The establishment is located at a farm near Cheltenham, on the Potomac Railroad, about 25 miles from Baltimore, and is managed by a board of trustees, in part appointed by the Mayor and City Council. Its object is to provide a House of Refuge for Colored Boys convicted of petty offences. Its purposes are reformatory, and the teaching of those sent to it some useful trade, enabling them as they grow up to become good citizens. The amount appropriated for its benefit during the past year was $15,000. The trustees ask a continuance of the appropriation.

GAS AND ILLUMINATING OILS.

The report of the Inspector of Gas and Illuminating Oils is herewith submitted. From this report it will be seen that the quantity of gas furnished by the three companies has materially improved during the past year. In 1876 the average standard of gas supplied to the citizens during the year was 13.78 candles, in 1877 it was 14.59. In 1878 the average standard furnished by the three companies was 16.87–16.97–18.40 respectively, while the report shows that in 1879 the standard was 17.61–17.77–18.43. Our citizens may, therefore, congratulate themselves on the marked improvement in the quality of this most necessary commodity.

By the provisions of Ordinance No. 100, approved October 29th, 1879, it was provided, "that no oil or fluids made from petroleum or its products, which will flash or give off an inflamable vapor below 120° Farenheit, or have a density less than 49° Beaume shall be

sold in quantities less than a barrel in the City of Baltimore." And the Inspector of Gas and Illuminating Oils was required to inspect all oil offered for sale by dealers, who, in turn, were required to take out an annual license, for which the city was to receive the sum of one dollar. Under the requirements of this ordinance, licenses have already been issued to 1,553 dealers in illuminating oils, and the report of the Inspector shows there is now no oil offered for sale in the city that does not come up to the standard required by law. It is to be hoped that the effect of this law will be to prevent the occurrence of any more accidents to persons and property arising from the use of dangerous oils.

GENERAL SUPERINTENDENT OF LAMPS AND INSPECTOR AND SEALER OF GAS METERS.

The office of General Superintendent of Lamps was created by Ordinance, approved October 23d, 1878, and consolidated with that of Inspector and Sealer of Gas Meters. The salary of this officer was fixed at $2,000 per annum, all fees received for inspection of meters to be paid into the city treasury. The report of this officer shows that the total number of gas lamps in the city, exclusive of those inside the parks and squares, is 4,847, and of gasoline lamps 998. There has been erected during the year 1879, 235 of the former—the number of the latter is 8 less than in 1878.

The Superintendent expresses the hope that during the present year some contract for furnishing gas may be entered into with the gas companies. At present the city is in the position of a tenant at will, having

no contract for any specified period of time. The valuable franchise in the use of the streets should be an inducement to the companies to furnish gas to the city on very liberal terms.

The following table gives the receipts of the office during the past year:

Inspection of gas meters	$3,200 50
Repairs of lamps	96 45
Sale of old material	23 40
	$3,320 35

It will be seen that the receipts more than pay the expenses of the department.

WESTERN MARYLAND RAILROAD.

The City of Baltimore having so large an investment in the Western Maryland Railroad, the following statement will prove interesting:

Statement of the Indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore, December 31, 1879.

First Mortgage Endorsement		$200,000 00
Second Mortgage Endorsement	$300,000 00	
Interest thereon to January 1, 1880	198,000 00	
		498,000 00
Amount carried forward,,		$698,000 00

Amount brought forward.		$698,000 00
Second Preferred Mortgage Bonds, held by Commissioners of Finance.....		178,500 00
Third Mortgage Endorsement.....	$875,000 00	
Interest thereon to January 1, 1880.....	472,500 00	
		1,347,500 00
Fourth Mortgage, to secure loan of City Stock.....	$1,000,000 00	
Interest thereon to January 1, 1880.....	450,000 00	
		1,450,000 00
Funding Certificate, being amount of matured coupons of First Mortgage Guaranteed Bonds and Second Preferred Mortgage Bonds, funded as per Ordinance No. 22 of 1879.....		225,930 00
Coupons from Unendorsed Bonds of First Mortgage held by Commissioners of Finance	$71,742 00	
interest due thereon to January 1, 1880.....	17,857 45	
		89,599 45
Total.....		$3,989,529 45
Less value of Western Maryland R. R. Sinking Fund ..		184,501 59
Total.....		$3,805,027 86

Statement of the Bonded Debt of the Western Maryland Railroad Company, January 1, 1880.

First Mortgage	$600,000 00
" Coupons held by City	71,742 00
Interest on Coupons to January 1, 1880	17,857 45
Second Preferred Mortgage	600,000 00
Second Mortgage	600,000 00
Interest to January 1, 1880	396,000 00
Third Mortgage	875,000 00
Interest to January 1, 1880	472,500 00
Fourth Mortgage	1,000,000 00
Interest to January 1, 1880	450,000 00
Funded Coupons of 1870	177,596 00
Funded Coupons of 1879	365,160 00
	$5,625,855 45
Less Sinking Fund in hands of City	184,501 59
	$5,441,353 86

The Western Maryland Railroad, under its able and efficient management, is now in a prosperous condition, with a steady increase in its receipts. A junction has been made with the Baltimore and Hanover Railroad, which promises to add largely to its revenue. The connection with Waynesboro, which will be completed within the next sixty days, will also prove a valuable feeder. The road is now paying the interest on the First and Second Preferred Mortgage Bonds, of which latter the Commissioners of Finance hold $178,500. I have no doubt that the city will eventually realize a return from a large portion of its investments in this corporation.

PUBLIC SCHOOLS.

The report of the Board of School Commissioners gives in detail an account of the work done in this most important department of the municipal government during the year 1879. It was only necessary to have been present at Druid Hill Park on the occasion of the celebration of the semi-centennial anniversary of the establishment of Public Schools in Baltimore, and have seen the thousands of people there assembled, to realize the popularity in this city of the system of free education.

Impressed as I am with the opinion that the happiness, prosperity and well being of a community, depend in a large measure upon the proper diffusion of knowledge among the people, I do not hesitate in earnestly recommending a liberal provision for the support of the Public Schools.

The number of Public Schools in this city is 125, with 36,505 enrolled pupils, classified as follows:

	Pupils.
1 Baltimore City College	579
2 Female High Schools	941
38 Grammar Schools	10,510
59 Primary Schools	15,768
5 English-German Schools	3,399
14 Colored Day Schools	4,398
1 Colored Evening School	728
1 White Evening School	110
1 Normal School	72
Total	36,505

Number of White Pupils.....	31,379
" " Colored "	5,126
" " Free "	23,528
" " Pay "	12,977

These schools have been conducted by 822 teachers, with an average daily attendance of 30,477, while the whole number of different pupils during the year was 48,988. The increase in the number of pupils over the previous year was 1,217. The cost per pupil on enrollment was $16.43, and on the average daily attendance $19.68, including the current expenses incurred by the Board, and the cost of the new buildings and repairs of old ones by the Inspector of Buildings.

The average annual salaries of officers and teachers together was $587.00. By a comparison with the expenditures of other large cities, it will be found that the cost per capita of pupils and the average annual salaries of teachers, as well as the general expenses of the schools in Baltimore, are much lower than elsewhere.

The total receipts from all sources for the support of the schools, were as follows:

City Collector.....	$404,339 37
State Treasurer, for White Schools	121,118 72
" " " Colored "	18,558 44
White Pupils for use of books.....	46,825 31
Colored " " " "	154 37
Interest on legacy.....	129 59
Total.....	$591,125 80

The receipts for the use of books were $1,413.73 less than during the year 1878, and the number of free pupils has increased and of pay pupils diminished. This has doubtless been owing to the depression in business during the early portion of the year, many of the parents being unable to pay the small charge of one dollar per quarter.

The expenditures for the year were as follows:

White Schools.

Salaries	$451,760 95	
Rents and ground rents	26,635 45	
Books and stationery	28,347 64	
Heating apparatus and repairs	8,783 99	
Furniture	5,256 29	
Fuel	9,952 66	
Repairs and cleaning	3,601 67	
Incidentals, printing, &c	6,126 37	
		$540,465 02

Colored Schools.

Salaries	$49,186 20	
Rents and ground rents	3,321 75	
Books and stationery	2,128 89	
Heating apparatus and repairs	837 98	
Furniture	1,638 35	
Fuel	1,660 36	
Repairs and cleaning	571 02	
Incidentals	188 40	
		$59,532 95
Total expenditures for current expenses		$599,997 97

The expenditures by the Inspector of Public Buildings for new buildings and repairs of old ones, was:

For White Schools	$43,326 87
For Colored Schools	570 35
	$43,897 22

It will thus be seen that the appropriation of $600,000 by the City Council for the support of the schools in 1879, has been strictly complied with.

The estimated amount asked for by the Board for the year 1880 is $640,000. The annual reports of the Commissioners on Education show that in New York, Philadelphia, Boston and Saint Louis, the appropriations for the support of Public Schools are from one million to three million dollars per annum. In Boston alone the amount appropriated in the year 1878 was $1,800,000, and in Brooklyn, Chicago, Cincinnati and San Francisco the annual appropriations are all larger than in Baltimore. The regular annual increase in the number of pupils requires the erection of new buildings for their accommodation, and the Board are, therefore, compelled to apply to the Council for a constant increase in the number of school-houses, and the extension, by additions to some of the old ones. Many of the buildings now occupied are overcrowded, and others are badly ventilated and unfit for school purposes. A census of the children in the city between the ages of 18 and 21, taken during the year, gave the number as 86,961, of whom 42,589 were males and 44,372 were females. Of this number 38.33 per cent. were in the public schools, 15.58 per cent. in private schools, and 46.09

per cent. attending neither. Of this percentage not attending school a large proportion were engaged in different occupations, many of whom had attended school and received some instruction. The report of the Board of School Commissioners is full of interesting statistics and information on the subject of education.

EXTENSION OF THE CITY LIMITS.

Among the important matters presented to the State Legislature, affecting city interests, is a bill contemplating the extension of the city limits. Our neighbors in what is called the Belt, while participating in all the advantages of City Government, share none of its burdens—enjoying the benefits of our water, police, fire department and public schools; conducting business in a large city whose safe deposit and bank vaults, filled with their personal property, are protected by the Municipal Government. By merely spending the night in a residence on the north side of Boundary avenue, they escape any portion of the expense of these facilities which contribute so largely to their comfort and profit. Under the provisions of the State Constitution, the extension of the limits of any city in the State, with the exception of Baltimore, is subject to the control of the Legislature. But to extend the limits of this city, the Constitution specially provides that the consent of the voters in the district to be annexed must first be obtained. It is well understood that this consent will never be given so long as our neighbors, without any cost to themselves, can enjoy the advantages of Municipal Government. The bill which has

been prepared by the Examiner of Titles, and is submitted to the Legislature, contemplates a change in the Constitution of the State, by allowing the General Assembly to have the same power to extend the limits of Baltimore that it has over other cities in Maryland. It will be found, on examination, that in no other State is this power denied to the Legislature. I think the justice of the measure will scarcely be questioned.

REPAVING OF THE STREETS.

Among the many evidences of improvement and prosperity in a city. are well-paved streets. In this respect Baltimore is sadly deficient. With few exceptions, our streets are paved with the old-fashioned cobble stones. With a beautiful park on the suburbs of the city there is not a well paved drive to it. Under these circumstances, I think the interests as well as comfort of the public would be advanced by the immediate repaving with such improved pavement as experience suggests, of some of our principal thoroughfares. I do not think that the annual levy should be called upon to meet this permanent improvement, and therefore suggest the application for an enabling act to make a loan of five hundred thousand dollars, the proceeds thereof to be used for purposes of repaving such streets as may be deemed most desirable. Should the bonds be issued at a rate not exceeding 4½ per cent. interest,. the annual tax to meet the interest would amount to about one cent in the levy.

MANUFACTURES.

I again call the attention of the City Council to the necessity for the encouragement of the establishment

of manufactures in Baltimore. The large increase in the commerce of the port is an indication of what enterprise and energy, aided by natural advantages, will accomplish for the prosperity of a city.

For several years past, large appropriations have been made for deepening the harbor and thus affording commercial facilities. A similar encouragement to manufactures cannot fail to be productive of like results in that direction. I have always been of the opinion that until manufacturing capital is offered the same inducement here, by the exemption from municipal taxation of the plant or machinery used for manufacturing purposes, which it enjoys in Pittsburg, Wilmington and Philadelphia, we cannot expect it to be invested in Baltimore. For this reason a bill has been carefully prepared and is now before the Legislature, authorizing the City Council to provide for such exemptions. Should this bill become a law, I earnestly hope that your Honorable Body will give it that consideration which the importance of the subject demands. In this connection I hope that the early introduction of the plentiful supply of water from the Gunpowder will be followed by a very large reduction in the cost of water used for manufacturing purposes. With our close proximity to the coal fields of the west, healthy climate, and an economical City Government, together with a proper encouragement, there is no reason why Baltimore should not become a great manufacturing centre, thereby largely increasing its taxable basis and affording ample employment at fair wages to the laboring and mechanical classes of its population.

DREDGING IN THE HARBOR.

The full report of the Harbor Board having been submitted to me after a portion of this message was already in print, has prevented my giving the following table under its proper head, but the statement is of so much interest as showing the important work done by this department, with its results, that I here insert it.

The gross cost of dredging in the Harbor, done by the Harbor Board since its organization in April, 1876, during my first term of office, has amounted to $408,570.07, for which 2,986,573 cubic yards of material have been removed, being an average cost of about 14 cents per cubic yard, which price includes all administrative expenses, together with the cost for maintenance of tugboat and crew, engineer of the board, clerk, watchmen, supervisors, &c. As shown in the reports of 1876, the average cost of dredging, including department expenses, under the old system of the "City Yard," was from 37 to 38 cents per cubic yard. The tonnage coming into this port in 1879, reached over 1,500,000 tons, the number of vessels being 1,904 or 200 more than in 1878. It is the judgment of the Harbor Board that at no distant day it will be advisable to extend the depth of 24 feet over the whole of the lower harbor, from shore to shore, and possibly higher up the middle harbor and basin.

AN UNPAID COMMISSION FOR THE CITY COMMISSIONER'S DEPARTMENT.

I have had prepared and printed, an ordinance, which will be submitted for your consideration, the purpose

of which is to place the entire business of the City Commissioner's Department under the control and management of an unpaid commission. In my message to the Council in 1877 I had occasion to call attention to our admirable system of unpaid commissions for the management of the different departments of the City Government. As I then said: "The Harbor Board, Water Board, Board of Finance Commissioners, Jail Board, Board of Trustees of the Poor and Fire Commissioners, have all given general satisfaction by the admirable and economical manner in which they have discharged their public duties. The benefit especially derived from the establishment of these unpaid commissions is, that by this means a class of citizens are brought into direct contact with the Municipal Government, who, being taxpayers themselves, and serving the community with no other reward than the honor of being connected with the public service, add strength to the administration and inspire confidence in the proper management of the different departments of the Municipal Government." The business of the City Commissioner's department is of especial importance to the improvement of the city. The establishment of proper grades, the paving of streets, the construction of sewers and the improvement of Jones' falls, are all matters involving the health and comfort of the people and materially affecting the value of their property. The rapid growth of the city has largely increased the business of this department, and added to its importance by necessitating the annual expenditure of a large amount of money. Under these circumstances I think the public interests will be advanced by the establishment of a board of

six commissioners, with the Mayor as chairman *ex-officio*, which shall meet monthly, as does the Water Board, and to which shall be submitted for consideration all the business of what is now known as the City Commissioner's Department. The executive business of the office would still be carried out, as now, by a city engineer and his assistants, who should be appointed by the Board and subject to its control and direction, as are the officers of the Water Board. The ordinance, which has been carefully prepared, provides for the working of the commission in all its detail, and is commended to your favorable consideration.

UNITED STATES POST OFFICE.

At last the claims of the city for the erection of a new Government building has obtained Congressional recognition. Under the authority of an Act of Congress, the Secretary of the Treasury was authorized to visit Baltimore and select what in his judgment would be deemed an appropriate site for its erection, the ground not to cost more than $500,000. With this object, Secretary Sherman came to the city, and after visiting a number of sites proposed for the purpose, selected that bounded by Calvert, Fayette, North and Lexington streets. One of the requirements of the Secretary being, that there should be no other building upon the square but that to be erected by the Government. Upon this lot there is now standing two buildings belonging to the city, occupied respectively as a Fire Engine-House, and the Mechanical department of the Water Board. The rest of the property

has been offered by the owners at a price within the sum of $550,000. On the report of the Secretary of the Treasury being submitted to the sub-committee on Public Buildings and gounds of Congress, to which it was referred, this committee has agreed to recommend the appropriation by Congress of the sum named, $550,000, to purchase the lot of ground, provided the city will donate its two building lots to the Government. It seems, therefore, that after much solicitation and waiting for many years, there is at last an opportunity of securing the erection of a magnificent Government building in Baltimore, at a cost, probably, with the ground, of between two and three millions of dollars, not only adding to the attractions of our city, but giving employment to large numbers of artizans and laborers whose services would be needed in its construction. The actual value of the property asked to be donated by the city is not over $35,000. And the actual outlay to the city of its transfer to the Government, would be from twenty to twenty-five thousand dollars. The city is already the owner of an unoccupied building on the north side of Lexington street, between North and Calvert, to which the Water department could be transferred at a comparatively small expense, and for the sum of twenty thousand dollars a lot could be obtained in the neighborhood, and a proper building erected to accommodate Fire Engine Company No. 4. Under these circumstances, I do not think the Council should hesitate in accepting the offer of the general Government. An Act has already been introduced in the Legislature, giving the necessary authority in the premises; and I recommend the

prompt passage of a city ordinance donating the two lots above referred to. A delay in this matter will doubltess postpone indefinitely the erection of a post-office building in Baltimore by the United States Government.

CITY PROPERTY.

In a message to the City Council in September last I stated that, in accordance with the authority given by the Code, "I was having plats made of all the real estate and leasehold property belonging to the city, with a view of finding out what were the actual Municipal possessions." This work is now nearly completed, and a full list of the property has been furnished. It will be submitted to your Honorable Body, with the plat and description of each lot. The property already investigated and which is used for no Municipal purpose, amounts, in estimated value, to nearly $500,000. Many of these estimates are based upon a capitalizing of the leases at 6 per cent. The amount received by the city from leases on this property aggregates $17,463.66 per annum, while the sum paid as lessee amounts to $2,111.50. A large number of the lessees have been exempted from taxation in consequence of the city being the owner of the reversionary interest. The amount thus exempted represents a taxable basis of $255,210.57. It appears that not only is the property of which the city is lessor, exempt, but also that of which the city is lessee. I earnestly recommend the passage of an ordinance authorizing the Comptroller to advertise and sell at public auction all of this property, including the old City Yard, that it may thus be added to the basis of

taxation, and the proceeds of the sale be placed to the credit of the public debt, by being added to the sinking fund. I hope your Honorable Body will give this recommendation a prompt and favorable consideration.

The plats of all the city property, which will be completed during the present month, are contained in three large volumes. On one page is neatly drawn the plat of the property, made from actual survey, with all buildings and improvements located, and on the adjoining page is given its full description, date of deed, where recorded, and from whom the property was obtained.

Volume 1 contains all the property used for school purposes, only six pieces of which belongs to the city in fee, the remainder being leasehold, with ground rents, amounting in the aggregate to $28,000 per annum, paid by the city.

Volume 2—All property belonging to the city not used for any Municipal purpose. It contains also the property controlled by the Water Board, the public squares and parks, and all property outside of the city limits.

Volume 3—All property used by different branches of the City Government, viz., the Fire Department, the Police Department, City Hall, Market-houses, &c.

These volumes will be deposited in the office of the City Comptroller, and are subject to your inspection.

In this connection I again call the attention of the City Council to a practice which I think should not be so largely indulged in, that of leasing ground for the erection of public buildings on irredeemable leases, instead of purchasing it, or at least providing for the

redemption of the lease at some future time. The city is thus constantly increasing the amount of its necessary annual expenditures. The power of the city to make these leases has at times been questioned, but the matter has not yet been submitted to the courts.

POLICE BOARD

I think the Mayor should be ex-officio a member of the Board of Police Commissioners, and that all disbursements of money made by that Board, should be upon itemized warrants drawn by the Board upon the Comptroller, and approved by the Mayor, as is done by the other departments of the City Government. And that all stationery and other supplies needed by the Board should be furnished in the same manner as they are required by city ordinances to be furnished to other departments of the Municipal Government.

REDUCTION IN RATE OF INTEREST.

A bill has been prepared which is now before the Legislature, authorizing the rate of interest to be paid on all bonds hereafter to be issued by the city at a rate not more than five per cent. This will afford an opportunity for the city to avail itself of its high credit and a favorable condition of the money market.

NEW SOURCES OF REVENUE.

The attention of other cities is now being directed to new sources of income to aid in supporting the cost of Municipal Government. In this connection I have, as said in a previous message, always thought that addi-

tional revenue might be raised by the imposition of taxes for franchises for the use of our streets, and for facilities enjoyed for doing business in a city from which large profits are derived. While we impose a special tax upon City Passenger Railways for the use of the beds of the streets for their tramways, the free use of these streets is granted to Gas Companies for their pipes, and to Telegraph Companies for their poles; privileges which certainly are valuable, and for which the imposition of a tax, while not materially interfering with their profits, would add to the revenues of the city. In this connection a bill is now before the Legislature authorizing the City Council to require private vehicles, as well as those kept for hire, to pay an annual license to the city. A revenue can probably be derived from this source which will meet a portion, at least, of the interest on any bonds that it may be deemed proper to issue for the repaving of the streets with Belgian blocks. The Commission on Manufactures, appointed during my former term of office, suggested the imposition of a moderate tax upon foreign insurance agencies, as a partial return for the benefits derived by their principals from the water system and fire department of the city. These matters are subjects worthy of your consideration.

CITY SURVEYOR.

Baltimore is the only large city in the country where the City Surveyor is elected by the people, and yet the election of this officer is required by a provision in the State Constitution. I do not think the system is good. The City Government pays annually to the City Sur-

veyor about $8,000; nor is he required to devote all his time to the city's business. This officer should be appointed by the Mayor, with a salary. He should have his office in the City Hall, where all plats of city property should be kept; of which plats he should be the custodian. His time should be solely given to the city. No house should be permitted to be erected without first obtaining the street lines from the City Surveyor, for which a charge, say of $2.00, should be made. As there are some 1,000 houses erected annually in this city, this would produce an annual revenue of $2,000. All copies of plats or lines and grades of streets furnished to outside parties, should be charged for. The grades and lines of all sidewalks should be obtained from the City Surveyor, for which a charge of a small amount should be made for every 20 lineal feet. These fees should all be paid into the city treasury. By this means, instead of the office costing the city some eight or nine thousand dollars per annum, it would be made self-sustaining. The opening of streets would be much less expensive, the work in the office would be performed in a more systematic manner, and the plats of city property would, by being kept in the City Hall, be protected from danger of loss by fire or otherwise. I think this suggestion of sufficient importance to recommend that an application be made to the Legislature for a change in that section of the State Constitution under which the office of City Surveyor of Baltimore is made elective. I do not propose that such a change should affect the term of the present incumbent of the position.

TOPOGRAPHICAL MAP OF THE CITY.

The importance of having a topographical map of the city has often been suggested. The only map which we have of such a character is that known as Poppleton's plat, which was begun in 1817 and finished in 1822. This map, which was good some sixty years ago, has now, in many cases, ceased to be of much value. Many of the streets as now laid out and built upon do not correspond with the location as shown upon this plat. None of the lines of the different building lots are shown, nor is the topography represented. In fact, it represents what the street lines of Baltimore were intended at that time to be, and not what they are. Many of the landmarks set by Poppleton have been removed; new ones should be planted about four squares apart, and their location designated upon the plat. The dividing lines of every lot should be distinctly defined, so that any encroachment of buildings upon the street lines could be plainly seen. The topographical features of the map would be very useful in determining the grades of new streets, laying water pipes, locating sewers, &c. In the event of the adoption of a general system of sewerage, which sooner or later must be adopted if we would preserve the health of this city, such a map would be indispensable. A map of this character would cost about fifteen thousand dollar, and its preparation would require about eighteen months or two years. This matter is one to which I invite your attention.

DEPARTMENT OF FINANCE.

The Commissioners of Finance have suggested for your consideration the question of a separation of all the business having any relation to the funded or guaranteed debt of the city, from that of the current receipts and expenditures of the City Government. Should this be determined upon, it can be done without the increase of expense or the creation of any extra municipal officers. By the provisions of Ordinance No. 30, approved April 29, 1797, there was appointed a city treasurer and a city register, Richard H. Moale being the first city register and William Gibson the first city treasurer. These two officers were, by Ordinance No. 74, approved March 10, 1798, consolidated into that of the City Register. The suggestion of the Finance Commissioners is, the propriety of re-establishing the two offices as they existed in 1797.

CITY COURTS.

Among other heavy items of expenditure is the cost of maintaining the City Courts. A large expense is annually incurred in this connection for the payment of fees to witnesses and jurors. A proper reduction of these fees would effect a material curtailment in cost, without interfering with the administration of justice. This will, however, require legislative action, and I am glad to see that a bill, having this object in view, has been introduced in the House of Delegates. I respectfully suggest to the Supreme Bench a thorough examination into all the items of the expenditures of the several courts with a view of reporting to the Mayor

and City Council and to the Legislature, now in session, such reductions as may be found practicable.

CONCLUSION.

I strongly urge upon your Honorable Body the necessity for the exercise of economy in the appropriations. There is no reason why the tax levy of $1.50 for 1879 should not be still further reduced for 1880. It is simply a question of the amount to be appropriated by the City Council in excess of the sum required for the necessary expenses of the City Government. These expenses, as shown by the report of the City Register, and the estimated requirements of the different departments, can be met by a levy of $1.25. A sufficient levy should be made to meet all appropriations, and no money be appropriated after the levy has been made. This course, pursued as it was by your predecessors in 1879, has prevented an increase in the floating indebtedness.

The duty imposed upon me by the terms of the City Charter, "to report annually to the Council the general state of the city, with an accurate account of the money received and expended, to be published for the information of the citizens," is the only apology I can offer for the length of this message.

I have the honor to be,

With great respect,

Your obedient servant,

FERDINAND C. LATROBE,

Mayor.

REGISTER

OF THE

CORPORATION OFFICERS

OF

BALTIMORE CITY,

For the Year 1880.

REGISTER
OF THE
CORPORATION OFFICERS
OF
BALTIMORE CITY,
For the Year 1880.

MAYOR'S OFFICE.

FERDINAND C. LATROBE, *Mayor.*
GEORGE SAVAGE, *Secretary to the Mayor.*
ANDREW J. KING, *Clerk to the Mayor.*
PAUL G. CROUT, *Mayor's Detective.*
WILLIAM H. RILEY, *City Messenger.*

REGISTER'S OFFICE.

JOHN A. ROBB, *Register.*
S. TURNER DUVALL, *Deputy Register and Cashier.*
J. SEWELL THOMAS, *Chief Clerk.*
WM. C. MARTIN, *Assistant Clerk.*
CHARLES M. GORDON, *Transfer Clerk.*

COMPTROLLER'S OFFICE.

JOSHUA VANSANT, *Comptroller.*
JESSE REMINGTON, *Chief Clerk.*
JAMES R. HORNER, *Assistant Clerk.*
JOSEPH VANSANT, *Assistant Clerk.*

LAW DEPARTMENT.

JAMES L. McLANE, *City Counsellor.*
THOMAS W. HALL, *City Solicitor.*
JOHN GILL, JR., *Examiner of Titles.*

Members of the First Branch City Council.

JOHN STEWART, *President.*

First Ward.....Dr. John D. Fiske.
Second Ward.....Thomas H. Hamilton.
Third Ward.....Samuel E. Atkinson.
Fourth Ward.....William J. Kelly.
Fifth Ward.....J. St. L. Perry.
Sixth Ward.....Joshua Horner, Jr.
Seventh Ward.....John M. Getz.
Eighth Ward.....John Meers.
Ninth Ward.....John J. Mahon.
Tenth Ward.....H. G. Fledderman.
Eleventh Ward.....John Stewart.
Twelfth Ward.....D. Giraud Wright.
Thirteenth Ward.....James E. Weaver.
Fourteenth Ward.....John S. Hogg.
Fifteenth Ward.....M. E. Mooney.
Sixteenth Ward.....Jacob Schenkel.
Seventeenth Ward.....Henry Sanders.
Eighteenth Ward.....James Broumel.
Nineteenth Ward.....M. A. Miller.
Twentieth Ward.....J. A. Dobson.

A. V. Milholland, *Chief Clerk.*
W. B. Fitzgerald, *Reading Clerk.*
Henry A. Schultz, *Committee Clerk.*
George W. Green, *Sergeant-at-Arms.*
Joseph Krager, *Doorkeeper.*
C. E. Thompson, *Page.*

Members of the Second Branch City Council.

A. H. GREENFIELD, *President.*

First and Second Wards—Wm. Stevens.
Third and Fourth Wards—Samuel A. Clagett.
Fifth and Sixth Wards—John McWilliams.
Seventh and Eighth Wards—James H. Ives.
Ninth and Tenth Wards—J. Frank Lewis.
Eleventh and Twelfth Wards—Dr. J. Pembroke Thom.
Thirteenth and Fourteenth Wards—J. C. Toner.
Fifteenth and Sixteenth Wards—R A. Poulton.
Seventeenth and Eighteenth Wards—J. F. Weyler.
Nineteenth and Twentieth Wards—A. H. Greenfield.

James Hyde, *Chief Clerk.*
James T. Dorsey, *Assistant Clerk.*
M. J. Whelan, *Committee Clerk.*
M. Farrell, *Sergeant-at-Arms.*
James Kelly, *Doorkeeper.*
H. D. Berry, *Page.*

Department of Finance.

His Honor, Ferdinand C. Latrobe, *Chairman.*
James Sloan, Jr., Robert T. Baldwin.

Tax Department.

Charles Webb, *City Collector.*
J. T. M. Barnes, *Deputy City Collector.*
Richard G. Ducket, *Cashier.*
Clapham Murray, *Assistant Cashier.*
Joshua B. Williams, *Book-keeper.*
Wm. C. Bordley, Jr., *General Cash Book-keeper.*
Frank Nicholson, *Transfer Clerk.*

James K. Harwood,	*Ledger Clerk.*
A. B. Upshur,	"
Richard S. Garrett,	"
Jno. F. Donohue,	"
Geo. W. Spicer,	"
Wm. Brown,	"
Andrew M. Kellow,	"
Ambrose McBriety,	"
Wm. Sigmund,	"
Chas. Schwartzhaupt,	"
Andrew J. Pennington,	*Bailiff.*
Wm. H. Russell,	"
Joseph C. Feldhaus,	"
Isaac S. Sanner,	"
M. P. Caughy,	"
G. Edw. Webb,	"
Jno. T. Ross,	"
Geo. W. Banks,	"
Frank Dandelet,	"
Robt. R. Kirkland,	"
Robt. W. Hays,	"
C. J. O'Brien,	"
Jno. M. Travers,	"
C. M. Hobbs,	"
Geo. A. Rea,	"
J. N. Foster,	"
Edward H. Walter,	"
Jno. Hamburger,	"
Thomas McCormick,	"
Chas. R. Waters,	"
Martin A. Sisson,	"
Jos. B. Baxter,	"

Judges of Appeal Tax Court.

Columbus W. Lewis, James E. Carr, A. B. Patterson.

H. P. Mowinckle, *Chief Clerk.*
Thomas K. McCormick, *Assistant Clerk.*
Michael Roche, *Assessor.*
W. W. Orndorff, "
Henry Duvall, "
James F. Deale, *Clerk to Assessors.*

City Commissioner's Department.

John H. Tegmeyer, *City Commissioner.*
Christopher Billopp, *Assistant City Commissioner.*
Wm. Nicoll, " " "
Newton M. Gray, " " "
John E. Toole, *Clerk.*

City Library.

Samuel D. Smith, *Librarian.*
John G. Scott, *Ass't* "

Inspector of Public Buildings' Office.

Robert S. Beetley, *Inspector.*
F. W. Elder, *Clerk.*

Commissioners for Opening Streets.

John B. Williams, *for three years.*
James S. Morrow, *for two years.*
Henry Curley, *for one year.*

Health Department.

James A. Steuart, M.D., *Commissioner of Health and Registrar*
James F. McShane, M.D., *Assistant Commissioner of Health.*
E. Lloyd Howard, M.D., *Physician at Marine Hospital.*
A. Robert Carter, *Secretary.*
Wm. H. Bosley, *Nuisance Clerk.*
V. Burgess Hines, *Permit Clerk.*
F. W. Raborg, *Clerk to Registrar.*
Montgomery Lawrence, *Messenger.*
George E. Taylor, *Sanitary Inspector.*
Jos. F. Fitzpatrick, "
Beverly Diggs, "
Jos. P. Smith, "
George E. Brown, "
Jno. E. Durding, "

Superintendents of Streets.

Bernard V. Kelly, *First District.*
Joseph P. Scott, *Second* "
Michael Fadgen, *Third* "
Louis Kraeger, *Fourth* "
John Meagher, *Fifth* "

Inspectors of Sewers.

Henry Paff, *Eastern District.*
John W. Lee, *Western District.*

Superintendents of City Public Cemeteries.

Patrick Mullin, *Eastern District.*
Frederick A. Kerchner, *Western District.*

Vaccine Physicians.

1st and 2d Wards.....James M. Sullivan, M.D.
3d and 4th " .... Samuel H. Martin, "

5th and 6th Wards.....Edward C. Jordan, M.D.
7th and 8th " .....E. Hall Rutledge, "
9th and 10th " ....Joseph V. Coonan, "
11th and 12th " .....I. Randolph Page, "
13th and 14th " .....Henry Darling, "
15th and 16th " .....John D. Blake, "
17th and 18th " .....Richard B. Fishburne, "
19th and 20th " .... Silas Baldwin, "

Harbor Board.

His Honor, Ferdinand C. Latrobe, *Chairman.*

Wm. H. Skinner, Jno. W. McCoy,
Alexander Jones, Robert T. Baldwin,
Jas. S. Woodside, James Bond,

N. H. Hutton, *Engineer.*
Jas. H. Irvin, Jr., *Clerk.*

Superintendent of City Hall.

James Donnelly.

Day Watchmen at City Hall.

James Merritt,
John Cosgrove,
Jno. G. Batzer.

Night Watchmen at City Hall.

John Schlereth,
William Henry.

Engineers at City Hall.

John Beck,
Curtis B. Simonds.

Firemen at City Hall.

Thomas Kernan,
Francis E. Peters,
Edward Weber,
William F. Harig,

Park Commission.

His Honor, Ferdinand C. Latrobe, *Chairman.*

Thomas Swann, John H. B. Latrobe,
William E. Hooper, George S. Brown,
Charles H. Mercer.
D. Rayhice, *Clerk.*

Water Department.

Commissioners.

His Honor, Ferdinand C. Latrobe, *President.*

John F. Hunter, George U. Porter,
George P. Thomas, Thomas Bond,
Wm. A. Fisher, N. Rufus Gill.

Registrar's Department.

Wm. L. Sharetts, *Water Registrar.*
James A. Marrian, *Cashier.*
Wm. F. Sinclair, *General Book-keeper.*
James S. Etchberger, *Clerk of Errors.*
George W. Sharetts, *Ledger Clerk.*
E. J. Edwards, "
James J. C. Scully, "
Jno. Gibson, "
Thomas H. Blick, *Clerk of Delinquents.*
Benjamin Price, *Collector.*
George A. Coleman, "
Jno. D. Alcock, "
George W. Emmerich, *Hydrant Inspector.*

ENGINEERS' DEPARTMENT.

James Curran, *Water Engineer.*
Robert K. Martin, *Civil Engineer.*
Richard D. Murphy, *Engineer's Clerk.*

BALTIMORE CITY JAIL.

BOARD OF VISITORS.

John M. Carter, *President.*

Otis Keilholtz, Adolph Nachman, *Secretary.*
Harry E. Reinhard, Jacob France, Sr.,

OFFICERS.

J. F. Morrison, *Warden.*
Daniel P. Hoffman, *Physician.*
Wm. H. H. Turner, *Clerk.*
Mrs. Carrie Doll, *Matron.*
Charles Carroll, *Deputy Warden.*
Henry Cruse, "
Wm. Howard, "
Wm. H. Cross, "
Joseph J. Peters, "
Edward C. Bowers, "
Lawrence Mayberry, "
Thomas J. Murray, "
John Reilly, "
Andrew J. Norris, "
Wm. H. Miller, "
Thomas M. Kenny, "
Wm. H. Tibballs, "
James J. Flannery, "
John F. Carter, "
James F. Busey, "
James B. Sanner, "
Charles W. Muhly, *Baker.*
Edward A. Hohn, *Gardner.*

Commissioners of Public Schools

Jno. T. Morris, *President.*

First Ward.....Francis J. Ruth.
Second Ward.....George H. Budeke.
Third Ward.....William C. Atkinson.
Fourth Ward.....Dennis Noble.
Fifth Ward.....William M. Ives.
Sixth Ward.....Jno. B. Wentz.
Seventh Ward.....Robert H. Sinclair.
Eighth Ward.....James Boyle.
Ninth Ward.....Joshua Plaskitt.
Tenth Ward.....John T. Morris.
Eleventh Ward.....John P. Poe.
Twelfth Ward.....Dr. William Lee.
Thirteenth Ward.....John L. Lawton.
Fourteenth Ward.....G. S. Griffith, Jr.
Fifteenth Ward.....John Ferry.
Sixteenth Ward.....Wm. E. Addison.
Seventeenth Ward.....H. B. Roemer.
Eighteenth Ward.....David M. Newbold.
Nineteenth Ward.....Joseph H. Gale.
Twentieth Ward.....James W. Denny.

Henry E. Shepherd, *Superintendent.*
Henry A. Wise, *Ass't* "
Henry M. Cowles, *Secretary.*
Jacob Boston, *Librarian.*
Albert Marshall, *Messenger.*

Trustees of McDonogh Educational Fund and Institute.

Samuel H. Tagart, *President.*

Wm. A. Stewart, David L. Bartlett,
H. Clay Dallam, German H. Hunt,
Rob't H. Baldwin, Chas. H. Mercer.

TRUSTEES OF ALMSHOUSE.

Joseph Friedenwald, *President.*

Henry R. McNally, George A. Blake,
Simon I. Kemp, John Black, *Secretary.*

Wm. Henry Hiss, *Agent or Purveyor.*
Isaiah Waggner, *Superintendent.*
James F. Bayly, *Clerk.*
Benjamin F. Sapp, *Farmer.*
Wm. Kaiser, *Chief Engineer.*
S. C. Hooper, *Ass't* "
Charles Jones, *Baker.*
J. Wesley Sapp, *Messenger.*
Mrs. S. McCahan, *Matron.*
George B. Reynolds, St. Geo. W. Teackle, } *Visiting Physicians.*
J. Turner Bartlett, *Apothecary.*

Agent of Baltimore City for the Deaf and Dumb.

Wm. R. Barry.

Directors on behalf of the City of the Maryland Industrial School for Girls.

G. S. Griffith, Jno. Q. A. Herring,
G. Harlan Williams, John C. Bridges,
Geo. R. Skillman.

Managers of House of Refuge on the part of the City.

William Reynolds,
George H. Stewart,
Lewis A. Birely,
James Pentland,
Levi Weinberger,
Charles L. Oudesluys,
Asa H. Smith,
E. A. Dalrymple,
Chas. P. Montague,
Wm. S. Rayner.

Managers on the part of the City for the House of Reformation and Instruction for Colored Children.

Charles T. Boehm,
J. Franklin Dix.

Directors on the part of the City in the Baltimore and Ohio Railroad Company.

W. Starr Gephart,
Jno. G. Medinger,
Michael Coakley,
B. F. Ulman,
George R. Berry,
C. W. Chancellor, M. D.,
John H. Holthaus.

Directors on the part of the City in the Union Railroad Company.

William G. Harrison,
H. H. Lewis.

Directors on the part of the City in the Western Maryland Railroad Company.

J. M. Hood, *President.*

Alex. Rieman, *Vice President*,
Christian Devries,
E. G. Hipsley,
Daniel J. Foley,
George M. Gill,
J. Alex. Preston,
Nicholas G. Penniman,
Sam'l H. Adams.

Directors on the part of the City in the Valley Railroad Company.

Henry Duvall, Decatur H. Miller, Osmun Latrobe.

Harbor Masters.

First District.....Jesse C. Morrisson.
Second " .....William Knorr.
Third " .....Burgwyn Maitland.
Fourth " .....James Henry.
Fifth " .....Patrick McLaughlin

Inspectors of Weights and Measures.

Western District.....Y. P. Stone.
Eastern District.....Anton Herr.

Inspector of Long and Dry Measures.

James Miller.

Inspector of Coal Oil and Illuminating Gas.

Prof. Wm. E. A. Aikin.

General Superintendent of Lamps and Inspector and Sealer of Gas Meters.

Frederick W. King.

Inspector of Charcoal.

Jacob Groh.

Distributors of Fund for the Relief of the Widows of those who fell in Defence of the City in 1814.

Wm. C. Atkinson, Findley H. Burns, George Small.

Superintendents of Chimneys.

First District ..... John C. Smyth.
Second " ..... John B. Rudolph.
Third " ..... George W. Trumbo.
Fourth " ..... George W. Ruckle.
Fifth " ..... Henry Wooden.
Sixth " ..... Martin Finneran.
Seventh " ..... Patrick Thornton.
Eighth " ..... George C. Toner.
Ninth " ..... John Mathison.
Tenth " ..... Edward Wells.
Eleventh " ..... George Bucheimer.

Superintendent of Court House, Record Office and Grounds.

William H. Clifford.

Watchman at Court House.

Daniel Barr.

Janitor of Old Masonic Hall Building.

Patrick Reilly.

Watchman at Old Masonic Hall Building.

John T. Lee.

Keeper of Drawbridge.
George Konig.

Keeper of Washington Monument.
James D. MacKenzie.

Keeper of Harman's Bridge.
Joseph Vandaniker.

Clerk of Centre Market.
Daniel Murray.
Thomas E. Burke, *Assistant Clerk.*

Clerk of Lexington Market.
James C. Randall.
Franklin Brown, *Assistant Clerk.*

Clerk of Fells Point Market.
Charles Eagleston.

Clerk of Belair Market.
Joseph T. Wright.

Clerk of Hollins Market.
John H. Barnet.

Clerk of Hanover Market.
George A. Albaugh.

Clerk of Richmond Market.

David H. Lucchesi.

Clerk of Lafayette Market.

Thomas Briddell.

Clerk of Cross Street Market.

James Graham.

Keeper of Hall over Broadway Market.

Michael P. German.

Keeper of Market under Maryland Institute.

John Monaghan.

Commissioners of Union Square.

William T. Phillips, Edward Potts, Andrew J. King.

Commissioners of Franklin Square.

Henry W. Roane, Sam'l A. Hart, Robt. M. Sutton.

Commissioners of Lafayette Square.

John A. J. Dixon, James E. Tate, Wm. J. Davison.

Commissioners of Eutaw Place Squares—First Division.

L. W. Gunther, Fred'k Raine, Oliver C. Zell,
Isaac S. George, A. H. Russell.

Commissioners of Eutaw Place Squares—Second Divison.

T. Edward Hambleton, C. Lorraine Gill,
Geo. J. Popplein.

Commissioner of Triangle formed by North Avenue, Oliver and McMechen Streets.

George P. Frick.

Commissioners of Mount Vernon Squares.

Thomas M. Lanahan, Robert Garrett, Henry C. Smith.

Commissioners of Madison Square.

Robert B. Glanville, B. F. Sutherland,
Joshua E. Armiger.

Commissioners of Jackson Square.

Joseph Brenner, George A. Blake, Chas. P. Powel.

Commissioners of Harlem Park.

R. D. Coe, Daniel G. Emory, James Marley.

Commissioners of Eastern City Square.

Jno. W. Cruett, Jas. J. Cavanaugh, J. T. Oster.

Commissioners of Broadway Squares.

Washington Kelly, Samuel Merritt, E. P. Vincente.

Commissioners of Perkins Spring Square.

Joseph Harris, J. Frank Wilhelm, William Gonder.

Commissioners of Park Place.

Frank Frick, Garrett B. Davids, Basil Wagner.

Commissioner of the Circle at Baker Street and Fulton Ave.

John T. Ford.

Commissioners of Johnson Square.

Lewis E. Wilcox, J. J. McGraw, Jas. Nolan.

Keeper of Calvert Street Spring.

Bernard Brady.

Keeper of Madison Square.

John Baker.

Keeper of Union Square.

Frederick E. Hopkins.

Keeper of Harlem Park.

William Sheehan.

Keeper of Lafayette Square.

Henry Manion.

Keeper of Franklin Square.
Ezekiel Gray, Sr.

Keeper of Eastern Fountain.
Francis Brashears.

Keeper of Broadway Squares.
James K. P. Fredericks.

Keeper of Perkins' Spring Square.
Peter Doyle.

Keeper of Jackson Square.
Frederick Williams.

Ward Managers of the Poor.

First Ward ..... John B. Wellener.
Second Ward..... John Cloke.
Third Ward.. ..... Richard C. Kemp.
Fourth Ward ..... John Quinn.
Fifth Ward..... Matthew Clark.
Sixth Ward..... Matthew McClintock.
Seventh Ward..... Adolph Nachman.
Eighth Ward..... Peter Kennedy.
Ninth Ward..... E. C. Eichelberger.
Tenth Ward..... Edward Pels.
Eleventh Ward ..... Chas. F. Taylor.
Twelfth Ward.. ..... Isaac S. George.
Thirteenth Ward ..... Levi Weinberger.
Fourteenth Ward... ..... Wm. H. Cox.
Fifteenth Ward... ..... F. Hassencamp.
Sixteenth Ward..... Peter Hines.
Seventeenth Ward..... Henry Dickens.
Eighteenth Ward..... T. P. Perine.
Nineteenth Ward..... George A. Smith.
Twentieth Ward..... Benjamin Horn.

Superintendents of Lamplighters.

Middle District.....John O'Neill.
Western " .. .. .Bernard Linn.
Eastern " .. ..Robert Lafferty.
Southern " .. .. J. E. Stinchcomb.

Lamplighters.

Hugh Potter.
Matthew Noonan,
John F. Konig.
John H. Colton.
Francis Eagan.
Benjamin Tall.
Anton Grieb.
Henry Bowerfine.
Martin Sommers.
Michael Wagner.
Benjamin Crisp.
Owen Burke.
Martin J. McDonough.
William Murray.
James Kidd.
Thomas Connelly.
Phillip Kimmel.
Michael Cassidy.
Moses Lappman.
Henry C. Westenberger.
Michael Reagan.
Wm. Laughlin.
Wm. Montague.
Thomas Rooney.
W. H. Farley.
Wm. Zell.
John McGlennon.
John Fox.
C. S. Frazier.
James Kerns.
James Scott.
George Molter.
John Waner.
Wm. Moan.
Michael Sloan.
Carlos Hall.
Presley S. Aubrey.
John G. Roth.
Emanuel Reis.
James Beatty.
John Bohlman.
John McDermott.
Robert Hunter, Sr.
John Corbitt.
Wm. Tierney.
James L. Hughes.
Wm. J. Eagan.
Fred. Harbig.

John Mahrer.
George Jockel.
Conrad Burger.
Michael Hanley.
John Knox.
Thomas Wright.
Henry W. Delcher.
Francis Philbin.
Francis Curren.
Joseph McAvoy.
James Robinson.
James Flynn.
Andrew Kautz,
Dennis McSweeney.
John Kelly.
John Brannon.
John Jeffers.
Michael Norton.
Richard Callanan.
Wm. S. Card.
Rupert Kohlerman.
James T. McClure.
Patrick McKinley.
B. F. Potter.
C. Augustus Ulbig.
Wm. W. McComas.

Wm. Gilliland.
John Parrish.
John Schweitzer.
E. D. Dunphy.
Joseph Brown.
Mathew Rudolph.
Bernard McGowan.
Ed. Schnur.
Joseph Stinecamp.
Joseph Barkman.
John Anglemeir.
John McNally.
Thomas Bentley.
John Sutherland.
Michael A. Canton.
Lawrence Spellman.
John Philbin.
Henry Burns.
John Benson.
John H. LeDoyen.
Henry Downs.
Lawrence McKitterick.
Thomas Whalen.
Taylor Seabreeze.
J. Burley.
Fred'k Soellner.

Constables.

First Ward .....Horatio Wallace.
" " .....Henry L. Darling.
Second " .....Lewis Roll.

Second	Ward	Henry Kauck.
Third	"	Henry D. Weaver.
"	"	Edwin G. Halstead.
Fourth	"	Godfrey Koffenberger.
"	"	Edward A. Healy.
Fifth	"	Chas. S. Moran.
"	"	Chas. P. Feldhaus.
Sixth	"	Wm. W. Rollins.
"	"	J. Fred. Cook.
Seventh	"	Frederick Kirsch.
"	"	Wm. F. Eberwein.
Eighth	"	David Dobler.
"	"	George Wilson.
Ninth	"	George Parrott.
"	"	James Mahon.
Tenth	"	Wm. H. McCabe.
"	"	Edward C. Lilly.
Eleventh	"	Michael Campbell.
"	"	Charles Davis.
Twelfth	"	Stephen Morse.
"	"	Charles Cope.
Thirteenth	"	Andrew F. Carrick.
"	"	Wm. A. Dixon.
Fourteenth	"	Henry Bernheimer.
"	"	H. P. Stunz.
Fifteenth	"	Wm. B. Lyon.
"	"	Thomas H. Shanks.
Sixteenth	"	Josiah S. Showacre.
"	"	R. O. Jessop.
Seventeenth	"	S. C. Tall.
"	"	D. P. West.
Eighteenth	"	Wm. F. Bragg.
"	"	Maurice Griffin.
Nineteenth	"	Wm. P. Smith.
"	"	F. W. A. Buschman.
Twentieth	"	J. K. Stine.
"	"	A. J. Collars.

Officers and Members of the Fire Department.

Fire Commissioners.

Sam'l W. Register, *President.*

Hon. F. C. Latrobe, *Ex Officio*,
Thomas W. Campbell,
Chas. B. Slingluff,
Jas. E. Trott,
Sam'l Hannah,
J. F. Morrison.

Secretary and Clerk.

George A. Campbell.

Chief Engineer.

John M. Hennick.

Assistant Engineers.

Geo. W. Ellender, *Eastern District.*
Thomas F. Murphy, *Western District.*

Fire Inspector.

Charles T. Holloway.

Superintendent of Police and Fire Alarm Telegraph.

Chas. J. McAleese.

Telegraph Operators.

Frank J. Connor,
Alexander Crummer,
Frank L. McAleese,
Harry P. Lucas.

Lineman.

Robert Kain.

Assistant Battery and Lineman.

Thomas F. Byrne.

No. 1 Engine.

Jacob H. Hayward. ..... *Foreman.*
J. W. Yeaton..... *Engineman.*
Chas. Freburger ..... *Ass't Engineman.*
L. J. Fresch ..... *Hostler.*
Wm. White. ..... *Fireman.*
J. Morgan ..... "
Geo. Mackenheimer. ..... "
E. R. Addison ..... "
Geo. D. Wernex..... "
M. J. Halloran..... "
Chas. Minton..... "
Rob't Close..... "

No. 2 Engine.

Jacob Hines..... *Foreman.*
T. E. Wheatley..... *Engineman.*
S. Stansbury..... *Ass't Engineman.*
Jno. F. Pearce ..... *Hostler.*
Thos. S. Rodenhi..... *Fireman.*
John A. Young ..... "
Charles Romoser..... "
Benjamin Wirts..... "
Jas. Humes. ..... "
Chas. Klessel ..... "
Chas. Causey..... "
H. Hamell..... "

No. 3 Engine.

P. H. Flaherty..... *Foreman.*
T. H. Humphreys..... *Engineman.*
P. F. Moriarity ..... *Ass't Engineman.*
P. F. Bradley..... *Hostler.*
Edward A. Pierson. ..... *Fireman.*
R. Lindsey ..... "
Jonas Lehman. ..... "
J. Reilly..... "
J. Battee..... "
A. H. Gier ..... "
J. L. Lindsay..... "
J. B. Catez..... "

No. 4 Engine.

Geo. W. Horton..... *Foreman.*
Frank K. Conway..... *Engineman.*
Cornelius Kuhan..... *Ass't Engineman.*
John Kelly..... *Hostler.*
James Allen..... *Fireman.*
J. O. Healey..... "
George W. Bentz. ..... "
Jas. Walsh..... "
J. P. Foreman..... "
F. Bradley ..... "
Fielding Lucas..... "
E. Schultz..... "

No. 5 Engine.

W. G. Miller.....*Foreman.*
F. L. Nelson.....*Engineman.*
Jas. A. Brown.....*Ass't Engineman.*
Bernard McGinn.....*Hostler.*
Edward Baily.....*Fireman.*
J. L. Chasen ..... "
W. Disney. ..... "
C. Clark..... "
J. O. Krauch. ..... "
Jas. Peacock. ..... "
Benj. Price..... "
Henry Murphy..... "

No. 6 Engine.

W. W. Watson.. .....*Foreman.*
M. Mulligan..... .....*Engineman.*
R. J. Boyle. .....*Ass t Engineman.*
John Wernsing..... .....*Hostler.*
T. B. Riall. ....*Fireman.*
H. J. Edell..... "
D. H. Macauley..... "
J. W. Harper..... "
J. H. Cruse ..... "
W. West..... "
L. Blake ..... "
Bernard Shaw..... "

No. 7 *Engine.*

Geo. H. Houck ..... *Foreman.*
Jno. McKee..... *Engineman.*
Jacob S. Corns..... *Ass't Engineman.*
J. W. Friedhoffer ..... *Hostler.*
L. B. Schieve..... *Fireman.*
Jos. Lavender. ..... "
J. Gildea..... "
J. F. Cook..... "
W. F. Morrow..... "
J. A. Hoffman..... "
John Sisson..... "
Jno. Houck. ..... "

No. 8 *Engine.*

John J. Flynn ..... *Foreman.*
W. Thompson ..... *Engineman.*
M. Welsh. ..... *Ass't Engineman.*
Wm. J. Stewart..... *Hostler.*
A. J. Walter ..... *Fireman.*
G. Chapman..... "
O. D. Burgess..... "
F. Johnston ..... "
G. W. Krager..... "
Howard Scott..... "
Sam'l Marker..... "
Jno. Gaffney. ..... "

No. 9 Engine.

F. D. Kerr.....*Foreman.*
D. R. Rogers .....*Engineman.*
Geo. Morris.....*Ass't Engineman.*
Jno. Reed.....*Hostler.*
J. McDevitt.....*Fireman.*
J. T. Harney..... "
S. Smith..... "
Charles Frey. ..... "
G. Meinberg..... "
S. Uhfelder..... "
Chas. Neilson..... "
Geo. Brown ..... "

No. 10 Engine.

W. R. Ward .....*Foreman.*
John J. McCoy .....*Engineman.*
Jno. Welsh.....*Ass't Eng'neman.*
Henry Dunn .....*Host'er.*
John O'Leary.....*Fireman.*
A. Squires..... "
Jno. C. Brady..... "
J. Lynch ..... "
J. Keily..... "
J. Keilholtz..... "
J. Laracy..... "
C. Myers..... "

No. 11 *Engine.*

Andrew Perry.....*Foreman.*
Jno. Calder.....*Engineman.*
Wm. Stanton.....*Ass't Engineman.*
James Gill.....*Hostler.*
H. R. Seipel.....*Fireman.*
J. D. Daniels..... "
E. Smith..... "
J. B. Lehman..... "
Miles Whalen..... "
J. A. Kelly..... "
Geo. Monmonier..... "
R. V. Pittinger..... "

No. 12 *Engine.*

Jno. P. Cosgrove.....*Foreman.*
M. Lycert.....*Engineman.*
G. Linsmyer.....*Ass't Engineman.*
Geo. D. Taylor.....*Hostler.*
Joseph Moon.....*Fireman.*
D. McIntyre..... "
H. Seebach..... "
L. Broadwater..... "
J. Iser..... "
W. R. Davis..... "
W. Schulte..... "
John Leddon..... "

No. 13 *Engine.*

J. V. P. O'Neill.....*Foreman.*
Jno. H. Deale .....*Engineman.*
Jno. A. Bannon.. .....*Ass't Engineman.*
Edward McGehan.....*Hostler.*
Geo. Bowers .....*Fireman.*
Wm. F. Clabaugh..... "
Ed. C. Keyser..... "
Jas. Ledoyne..... "
Philip Bowen ..... "
Lawrence Pistel..... "
Jas. Kelly..... "
L. C. Campbell..... "

No. 1 *Hook and Ladder.*

H. W. Mears.....*Foreman.*
J. W. Blake.....*Tillerman.*
J. E. Patterson.. .....*Hostler.*
Jas. Disney.....*Laddernan.*
J. B. Keene..... "
M. Nolan. ..... "
J. Ward..... "
J. L. Southcomb ..... "
A. Chrismer..... "
J. V. Dougherty..... "
J. R. Farr..... "
Geo. W. Haskell..... "
Wm. H. Riley ..... "

No. 2 Hook and Ladder.

F. A. Marston..... *Foreman.*
J. G. Gill.....*Tillerman.*
Thos. Montgomery.....*Hostler.*
E. W. Windell.....*Ladderman.*
W. R. Lashorne..... "
Thomas Wagner..... "
Paul Hoffman..... "
J. C. Turner..... "
Lewis Pistel..... "
F. Brannon..... "
R. F. Rouse..... "
Chas. Rolf ..... "
W. H. Quigley..... "

No. 3 Hook and Ladder.

Geo. W. Foxwell.....*Foreman.*
John McClellan.....*Tillerman.*
Wm. E. Vanrossen.....*Hostler.*
Rich'd Henrix.....*Ladderman.*
N. Wormsley..... "
J. N. Downs..... "
Thomas Taylor.. "
A. German..... "
L. Roll..... "
Geo. Bosse..... "
Jno. Sauer ..... "
Lewis Locks..... "
Jesse Vickers..... "

JUDGES AND CLERKS OF COURTS.

Superior Court.

Hon. Robert Gilmor, Jr., *Judge.*
F. A. Prevost, *Clerk.*

Court of Common Pleas.

Hon. Geo. Wm. Brown, *Judge.*
I. Freeman Rasin, *Clerk.*

Circuit Court.

Hon. Geo. W. Dobbin, *Judge.*
James R. Brewer, *Clerk.*

Criminal Court.

Hon. Campbell Whyte Pinkney, *Judge.*
John S. Bullock, *Clerk.*

City Court.

Hon. Henry F. Garey, *Judge.*
N. C. Robertson, *Clerk.*

COMMITTEES

OF THE

City Council of Baltimore,

FOR THE YEAR 1880.

JOINT STANDING COMMITTEES.

WAYS AND MEANS.

First Branch.	*Second Branch.*
Wright, D. Giraud	Thom, J. P.
Hogg, John S.	Ives, Jas. H.
Getz, John M.	Poulton, R. A.

BRIDGES.

First Branch.	*Second Branch.*
Atkinson, S. E.	Toner, J. C.
Perry, J. St. L.	Stevens, Wm.
Sanders, H.	McWilliams, J.

WATER.

First Branch.	*Second Branch.*
Mahon, J. J.	Poulton, R. A.
Fiske, J. D.	McWilliams, J.
Mooney, M. E.	Toner, J. C.

CLAIMS.

First Branch.	*Second Branch.*
Hogg, John S.	Poulton, R. A.
Wright, D. Giraud	Thom, J. P.
Broumel, James	Stevens, Wm.

HIGHWAYS.

First Branch.	*Second Branch.*
Broumel, James	Lewis, J. F.
Kelly, Wm. J.	Ives, Jas. H.
Mahon, J. J.	Clagett, S. A.

HARBOR.

First Branch.	*Second Branch.*
Kelly, Wm. J.	Weyler, J. F.
Atkinson, S. E.	Clagett, S. A.
Sanders, H.	Stevens, Wm.

HEALTH.

First Branch.	*Second Branch.*
Atkinson, S. E.	Thom, J. P.
Hamilton, Thomas H.	Lewis, J. F.
Horner, Jr., Joshua	Ives, Jas. H.

CITY PROPERTY.

First Branch.	*Second Branch.*
Fiske, J. D.	Stevens, Wm.
Weaver, J. E.	McWilliams, J.
Miller, M. A.	Weyler, J. F.

MARKETS.

First Branch.	*Second Branch.*
Hamilton, Thomas H.	Clagett, S. A.
Getz, J. M.	Lewis, J. F.
Sanders, H.	Ives, Jas. H.

EDUCATION.

First Branch.	*Second Branch.*
Schenkel, J.	Lewis, J. F.
Atkinson, S. E.	Poulton, R. A.
Horner, Jr., Joshua	Toner, J. C.

McDONOGH BEQUEST.

First Branch.	*Second Branch.*
Fiske, J. D.	McWilliams, J.
Sanders, H.	Toner, J. C.
Mahon, J. J.	Weyler, J. F.

HOUSE OF REFUGE.

First Branch.	*Second Branch.*
Weaver, J. E.	Thom, J. P.
Broumel, James	Lewis, J. F.
Meers, John	Clagett, S. A.

INTERNAL IMPROVEMENTS.

First Branch.	*Second Branch.*
Sanders, H.	Clagett, S. A.
Perry, J. St. L.	Toner, J. C.
Fiske, J. D.	Thom, J. P.

FIRE DEPARTMENT.

First Branch.	*Second Branch.*
Miller, M. A.	McWilliams, J.
Fledderman, H. G.	Poulton, R. A.
Mahon, J. J.	Weyler, J. F.

PARKS.

First Branch.	*Second Branch.*
Getz, J. M.	Ives, Jas. H.
Sanders, H.	Thom, J. P.
Dobson, J. A.	Clagett, S. A.

POLICE AND JAIL.

First Branch.	*Second Branch.*
Fledderman, H. G.	Ives, Jas. H.
Mahon, J. J.	Poulton, R. A.
Dobson, J. A.	Lewis, J. F.

CITY PASSENGER RAILWAYS.

First Branch.	*Second Branch.*
Mooney, M. E.	Ives, Jas. H.
Miller, M. A.	Poulton, R. A.
Hamilton, Thomas H.	Stevens, Wm.

ALMSHOUSE.

First Branch.	*Second Branch.*
Meers, John	Weyler, J. F.
Sanders, H.	Toner, J. C.
Dobson, J. A.	Stevens, Wm.

COMMERCE AND MANUFACTURES.

First Branch.	*Second Branch.*
Miller, M. A.	Toner, J. C.
Mahon, J. J.	Weyler, J. F.
Horner, Jr., Joshua	Clagett, S. A.

JONES' FALLS.

First Branch.	*Second Branch.*
Perry, J. St. L.	McWilliams, J.
Fiske, J. D.	Thom, J. P.
Meers, John	Stevens, Wm.

CITY PRINTING.

First Branch.	*Second Branch.*
Atkinson, S. E.	Stevens, Wm.
Getz, J. M.	McWilliams, J.
Hamilton, Thomas H.	Weyler, J. F.

ENROLLMENT.

First Branch.	*Second Branch.*
Hamilton, Thomas H.	Lewis, J. F.
Miller, M. A.	Ives, Jas. H.

Joint Special Committee for the Introduction of the Waters of the Gunpowder River into the City.

First Branch.	*Second Branch.*
Fledderman, H. G.	Thom, J. P.
Miller, M. A.	Lewis, J. F.
Mooney, M. E.	Poulton, R. A.
Getz, J. M.	McWilliams, J.
Horner, Jr., Joshua	Toner, J. C.

JOINT SELECT COMMITTEES.

REGISTER'S ACCOUNTS.

First Branch.	*Second Branch.*
Mooney, M. E.	McWilliams, J.
Fiske, J. D.	Stevens, Wm.
Horner, Jr., Joshua	Ives, Jas. H.

COMMISSIONERS OF PUBLIC SCHOOL ACCOUNTS.

First Branch.	*Second Branch.*
Weaver, J. E.	Poulton, R. A.
Getz, J. M.	Thom, J. P.
Dobson, J. A.	Clagett, S. A.

COMMISSIONERS OF FINANCE ACCOUNTS.

First Branch.	*Second Branch.*
Hogg, John S.	Lewis, J. F.
Broumel, James	Thom, J. P.
Perry, J. St. L.	Toner, J. C.

COMPTROLLER'S ACCOUNTS.

First Branch.	*Second Branch.*
Miller, M. A.	Stevens, Wm.
Mooney, M. E.	McWilliams, J.
Hamilton, Thomas H.	Poulton, R. A.

CITY COMMISSIONER'S AND HARBOR COMMISSION ACCOUNTS.

First Branch.	*Second Branch.*
Broumel, James	Clagett, S. A.
Fiske, J. D.	Weyler, J. F.
Getz, J. M.	Ives, Jas. H.

WATER COMMISSIONER'S ACCOUNTS.

First Branch.	*Second Branch.*
Mahon, J. J.	Toner, J. C.
Meers, John	Lewis, J. F.
Atkinson, S. E.	McWilliams, J.

HEALTH COMMISSIONER'S ACCOUNTS.

First Branch.	*Second Branch.*
Fiske, J. D.	Weyler, J. F.
Horner, Jr., Joshua	Lewis, J. F.
Miller, M. A.	Stevens, Wm.

COMMISSIONERS FIRE DEPARTMENT ACCOUNTS.

First Branch.	*Second Branch.*
Mahon, J. J.	Ives, Jas. H.
Fledderman, H. G.	Clagett, S. A.
Dobson, J. A.	Weyler, J. F.

ANNUAL REPORTS

OF THE

REGISTER OF THE CITY

AND OF THE

Commissioners of Finance

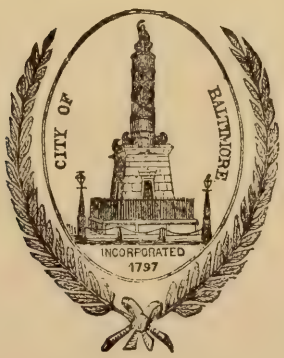
TO THE

Members of the First and Second Branches

OF THE

CITY COUNCIL,

For the Year Ending December 31st, 1879.



BALTIMORE:
PRINTED BY KING BROTHERS.

1880.

REPORT OF

JOHN A. ROBB,

REGISTER OF THE CITY.

Register's Report.

OFFICE OF THE REGISTER OF THE CITY.

Baltimore, January 9th, 1880.

To the Honorable the Members of the

First and Second Branches of the City Council:

GENTLEMEN:

In performance of the duty required by the 22d section of Article XI of the Baltimore City Code, the undersigned presents "his account of all moneys received and expended by him during the past year;" a "statement of the estimated receipts and payments required for the current year;" also, tables showing the funded and guaranteed debt of the city as of December 31st, 1879; the condition of the sinking funds under his charge for the redemption of the five million loan to the Baltimore and Ohio Railroad Company, and for the redemption of the loan to the Western Maryland Railroad Company, and bonds of the same, guaranteed by the City of Baltimore.

The total receipts for the year amount to the sum of	$7,428,704 77
To which add the cash balance on hand from the last year	196,497 50
Making the total amount to be accounted for	$7,625,202 27

A reference to the tables marked D and E will show the total disbursements to be $7,296,492.22, leaving the cash balance on hand, December 31st, 1879, $328,710.05

For convenience of reference, and for the purpose of exhibiting the actual costs of the City Government, the following statements of receipts and disbursements have been condensed from table D:

Compared with the year 1878, the actual or ordinary income of the city is less this year by the sum of $179,797.31, while the costs proper of the City Government have not reached as high as in 1878 by the amount of $840,279.73.

RECEIPTS—INCOME PROPER.

From City Collector, levy of 1879	$2,401,933 23	
" City Collector, levy of 1878 and previous years	1,431,814 77	
		$3,833,748 00
" Public Schools' tuition fees, and from J. F. Plummer		47,109 27
Amount carried forward		$3,880,857 27

	Amount brought forward	$3,880,857 27
From	wharfage	26,788 15
"	markets	50,934 51
"	sundry regular sources	86,145 97
"	Baltimore and Ohio Railroad Company dividends	253,662 50
	Actual income	$4,298,388 40

RECEIPTS—NOT INCOME PROPER.

From	Baltimore and Ohio Railroad Company, to pay interest on five million loan	$300,000 00
"	Commissioners of Finance, per Ordinance No. 33, 1879	82,965 00
"	State of Maryland, Public School tax	139,677 16
"	sales of city property	11,888 91
"	City Passenger Railway Companies, for Park Sinking Fund	12,210 57
"	City Passenger Railway Companies, for Park Board	87,808 59
"	tax sales	8,721 47
"	Water Board	554,272 00
"	sales of city stock, for Permanent Water Supply	882,656 50
"	sales of city stock, for improvement of Jones' Falls	143,952 25
	Amount carried forward	$6,522,540 85

	Amount brought forward $6,522,540	85
From	sales of city stock, for funding loan 1916 93,600	00
"	temporary loans 631,500	00
"	estate of Sarah Ann Fowler..... 1,401	30
"	United States' Government, war claim 62,498	80
"	Inspector of Buildings, advertising.. 1,010	12
"	opening and widening streets, sales by Commissioners..... 11,378	02
"	opening, widening and paving streets, from City Collector 102,157	78
"	Sheriff, for Dispensaries..... 2,617	90
	Total receipts.....$7,428,704	77
	Cash balance December 31st, 1878. 196,497	50
	$7,625,202	27

DISBURSEMENTS—EXPENSES OF THE CITY.

Interest on stock debt..... ....$1,014,527	47
Expenses of Courts, Jail, registration of voters, &c..... 232,287	97
Public Schools, salaries and expenses..... 460,320	81
Public Schools, new buildings and repairs. 46,897	22
City poor..... 160,244	35
Sinking funds..... 8,735	82
Harbor Commission..... 140,013	40
Amount carried forward $2,063,027	04

Amount brought forward	$2,063,027 04
State Police	584,719 01
Health Department	246,317 50
Fire Department	163,035 22
Inspector of Public Buildings	9,864 90
City Commissioner's Department	135,694 78
Department of Lamps	131,125 67
Lamplighters	42,432 00
Discount on taxes and interest on temporary loans	140,557 69
City Council expenses	50,006 98
Salaries	64,000 21
General expenditures, being the aggregate of sundry items	186,406 86
Coupons paid for Western Maryland Railroad Company	555 00
Total expenses	$3,817,742 86

DISBURSEMENTS—Not Expenses of the City.

Interest on five million loan Baltimore and Ohio Railroad Company	300,000 00
Public Schools, tax from State of Maryland.	139,677 16
Park sinking fund from City Passenger Railway Companies	12,210 57
Advertising by Inspector of Buildings	1,010 12
Park Board	89,538 53
Improvement of Jones' Falls	305,660 31
Tax sales	17,217 28
Water Board	644,674 90
Amount carried forward	$5,327,731 73

Amount brought forward	$5,327,731 73
Permanent Water Supply	838,387 26
Department of Finance	82,965 00
Temporary Loans	812,500 00
Federal Hill	67,227 22
Widening, opening and paving streets	167,681 01
Total disbursements	$7,296,492 22
Cash balance December 31st, 1879	328,710 05
	$7,625,202 27

REQUIREMENTS FOR THE CURRENT YEAR.

The estimated requirements for the current fiscal year, as detailed in statement B, are	$5,359,057 55
And the receipts as per statement, marked C	2,697,823 00
Amount to be provided for by taxation	$2,661,234 55

Being $424,233.60 less than the estimate made by this department for the last fiscal year.

Though the expectations of the Committee of Ways and Means of the Council of last year, in the collection of taxes in arrear, have not been fully realized, the existing claims or floating debt, as it is called, shows the figures $296,370.28 as against $622,649.18 of last year, a reduction of $326,278.90, a gratifying result of the new policy of the Mayor and City Council in abstain-

ing from appropriations of money, *after* the making up and adoption of the annual levy.

FUNDED AND GUARANTEED DEBT.

The increase of the funded debt, $1,065,200, was caused by the issue of $44,100 of Jones' Falls 6 per cent. stock, making the total issue of this stock $800,000, as required by Ordinance approved January 31st, 1870; the issue, by order of the Commissioners of Finance, of $841,500 Water 5 per cent. stock, for a permanent supply of water from the Gunpowder river; $90,000 of the 5 per cent. funding loan of 1916, and $89,600 of Jones' Falls 5 per cent. stock of 1900, in virtue of Ordinance No. 99 of 1878. The premiums on these loans amounted to $55,008.75.

The funded and guaranteed debt, as of December 31st, 1879, is	$35,023,798 06
And the productive or interest bearing assets	28,099,036 02
Debt, less means for paying the same	$6,924,762 04

The net amount of the funded and guaranteed debt, for which interest is paid by taxation, is $13,119,953.48.

FIVE MILLION LOAN SINKING FUND.

The value of the sinking fund for the redemption of the five million loan to the Baltimore and Ohio Railroad Company, due in 1890, is $2,172,479.44, an increase since last report of $108,561.33.

WESTERN MARYLAND RAILROAD SINKING FUND.

The sinking fund for the redemption of the bonds of the Western Maryland Railroad Company, guaranteed by the city, has increased $9,416.25. The present value of this fund is $184,501.59.

I respectfully refer you to the report of the Commissioners of Finance for the condition of the various sinking funds belonging to the city, and also to the accompanying tables:

Table A is a statement of the public debt of the city.

Table B is an estimate of requirements for the current fiscal year.

Table C is an estimate of receipts for the current fiscal year.

Table D is a detailed statement of the receipts and and disbursements, and showing the appropriations for the various accounts.

Table E shows the aggregate monthly receipts and disbursements.

Table F shows the condition of the five million loan sinking fund.

Table G shows the condition of the Western Maryland Railroad sinking fund.

Respectfully submitted,

JOHN A. ROBB.

Register of the City.

STATEMENT A.

Statement of Funded Debt, December 31, 1879.

Loan.	Rate.	When Payable.	Amount.
Court House....	5 per cent.	At pleasure after the year 1860	$ 85,900 00
Consolidated....	5 "	" " " 1885	943,161 54
"	6 "	" " July 1, 1890	7,306,546 23
Public Park.....	6 "	" " Sept. 1, 1890	555,566 25
Exempt	6 "	" " " 1893	410,353 87
Water.....	6 "	" " July 1, 1894	263,000 00
"	5 "	" " " 1894	3,358,200 00
Funding.....	6 "	" " " 1900	800,000 00
"	5 "	" " " 1916	1,000,000 00
Water.....	5 "	" " " 1916	5,000,000 00
City Hall.....	6 "	July 1, 1884.....	1,000,000 00
One Million....	6 "	January 1, 1886	1,000,000 00
Valley R. R.....	6 "	October 31, 1886.....	1,015,300 00
Five Million....	6 "	January 1, 1890..	5,000,000 00
Consolidated....	6 "	September 1, 1893.....	2,211,068 05
Park Improvem't	6 "	January 1, 1895	185,723 80
City Hall.....	6 "	April 15, 1900.....	1,000,000 00
Jones' Falls.....	6 "	" 9, 1900..... ...	800,000 00
"	5 "	" 9, 1900.....	89,600 00
W. Md. Railroad	6 "	January 1, 1902.....	1,000,000 00
City Hall.....	6 "	March 7, 1902.....	500,000 00
Water.....	6 "	No interest allowed	6,646 33
Overdue Stock..	6 "	" "	732 00
		Total Funded Debt.....	$33,531,798 06

Guaranteed Debt.

Endorsement for W. Md. R. R. Co., 1st mtge.	$200,000 00	
" " " " 2d "	300,000 00	
" " " " 3d "	875,000 00	
" Union R. R. Co , 1st mtge..	117,000 00	
		1,492,000 00
Total Funded and Guaranteed Debt....		$35,023,798 06
From which deduct—		
Water Loans 1894 and 1916, interest paid by revenue from water rents.....	$8,621,200 00	
Park Loans, interest paid by City Passenger Railway Companies	555,566 25	
Cash in bank in reserve for the redemption of the Water Stock of 1875.....	6,646 33	
		9,183.412 58
Amount carried forward.....		$25,840,385 48

Amount brought forward			$25,840,385 48
And the following productive and interest-bearing assets:			
Mortgage on the Balto. and Ohio R. R. Co ..		$5,000,000 00	
" Union R. R. Co.....		117,000 00	
" West. Md. R. R. Co. (First).		200,000 00	
32,500 shares Baltimore and Ohio Railroad Company Stock, paying a dividend of 8 per cent., capitalized at 6 per cent.....		4,333,333 33	
Value of the Sinking Funds.....		7,423,727 11	
550 shares Baltimore and Reisterstown Turnpike Company, valued at.....		1,925 00	
625 shares Baltimore and Yorktown Turnpike Company Stock.....		4,317 67	
120 shares Baltimore and Havre de Grace Turnpike Company Stock.....		4,000 00	
137 shares Baltimore and Frederick Turnpike Company Stock.....		206 00	
Market houses, producing a yearly rental of.....	$45,000 00		
Improved wharf property, producing a yearly rental of....	45,000 00		
Other real estate, producing a yearly rental of.....	19,866 86		
	$109,866 86		
Capitalized at 6 per cent.....		1,831,114 33	
			18,915,623 44
			$6,924,762 04
The unproductive assets are as follow:			
Mortgages on the Western Md. R. R. Co....		$2,175,000 00	
Interest coupons paid for W. Md. R. R. Co..		1,038,192 57	
10,000 shares Valley Railroad Company of Virginia, par $100.		1,000,000 00	
4000 shares Western Md. R. R Co., par $50..		200,000 00	
7600 shares Baltimore and Susquehanna Tidewater Canal Company Stock, par $50...		380,000 00	
714 shares Baltimore and Hall Springs Railway Company Stock, par $20.....		14,280 00	
Besides other property, such as—			
Court Houses, Record Office, City Hall, Jail, Police Stations, Fire Engine Houses and Apparatus, School Houses, Almshouse, Ice Boats, City Yard, Marine Hospital Grounds, Public Parks, &c., valued at ..		10,000,000 00	
			$14,807,472 57

APPENDIX TO STATEMENT A.

From the total Funded and Guaranteed Debt		$35,023,798 06
Deduct the following:		
Overdue Water Stock, no interest allowed...	$6,646 33	
" 1890 " " ...	732 00	
And the following, the interest being provided for:		
By the Baltimore and Ohio Railroad Co. on..	5,000,000 00	
" dividend on Baltimore and Ohio Railroad Stock, being the interest on..	4,227,700 00	
" West. Md. R. R. Co. 1st mortgage on	200,000 00	
" City Passenger Railway Companies on.....	555,566 25	
" Water Board, from rents, on.....	8,621,200 00	
" Union Railroad Company on.	117,000 00	
" Commissioners of Finance, for interest on the One Million Loan.....	1,000,000 00	
" Commissioners of Finance on West. Maryland Railroad Loan.....	1,000,000 00	
" Commissioners of Finance on Western Maryland Guaranteed Bonds..	1,175,000 00	
		21,903,844 58
Leaving the amount on which interest is paid by taxation at.....		$13,119,953 48

viz: $ 2,118,661 54 interest @ 5 per cent.
11 001.291 94 " 6 "

$13,119,953 48

STATEMENT B.

The existing claims against, and estimated expenses of the city, for th fiscal year ending December 31, 1880, against which receipts from uncollected taxes and other specified sources apply, are as follow:

EXISTING CLAIMS.

Temporary loans	$200,000 00	
Balance due Jones' Falls account	5,257 24	
Balance due Park Board	2,429 85	
" Water "	293,839 44	
" Permanent Water Supply	123,553 80	
	$625,080 33	
Less cash in bank	328,710 05	
		$296,370 28
Taxes in arrear...$2,545,017 70		

ESTIMATED REQUIREMENTS FOR THE FISCAL YEAR ENDING DECEMBER 31, 1880.

One year's interest on Court House Stock, 5 per cent	$4,295 00	
One year's interest on Consolidated 5 Per Cent. Stock, 1885	47,158 07	
One year's interest on Water 5 Per Cent. Stock, 1894	167,910 00	
Amounts carried forward	$219,363 07	$296,370 28

STATEMENT B—Continued.

Amounts brought forward.....	$219,363 07	$296,370 28
One year's interest on Funding 5 Per Cent. Stock, 1916.....	50,000 00	
One year's interest on Water 5 Per Cent. Stock, 1916.....	250,000 00	
One year's interest on Jones' Falls 5 Per Cent. Stock, 1900.	4,480 00	
One year's interest on Consolidated 6 Per Cent. Stock, 1890.....	438,392 76	
One year's interest on Public Park 6 Per Cent. Stock, 1890.	33,333 96	
One year's interest on Exempt 6 Per Cent. Stock, 1893.....	24,621 24	
One year's interest on Water 6 Per Cent. Stock, 1894.....	15,780 00	
One year's interest on Funding 6 Per Cent. Stock, 1900.....	48,000 00	
One year's interest on City Hall 6 Per Cent. Stock, 1884.	60,000 00	
One year's interest on City Hall 6 Per Cent. Stock, 1900.	60,000 00	
One year's interest on City Hall 6 Per Cent. Stock, 1902.	30,000 00	
One year's interest on One Million 6 Per Cent. Stock, 1886	60,000 00	
One year's interest on Valley R. R. 6 Per Cent. Stock, 1886.	60,918 00	
Amounts carried forward.....$1,354,889 03		$296,370 28

STATEMENT B—Continued.

Amounts brought forward.....	$1,354,889 03	$296,370 28
One year's interest on Five Million 6 Per Cent. Stock, 1890	300,000 00	
One year's interest on Consolidated 6 Per Cent. Stock, 1893.	132,664 08	
One year's interest on Park Improvement 6 Per Cent. Stock, 1895.....	11,143 38	
One year's interest on Jones' Falls 6 Per Cent. Stock, 1900.	48,000 00	
One year's interest on Western Md. R. R. Co. 6 Per Cent. Stock, 1902.....	60,000 00	
One year's interest on Western Md. R. R. Co. Second Mortgage Guaranteed Bonds.....	18,000 00	
One year's interest on Western Md. R. R. Co. Third Mortgage Guaranteed Bonds.....	52,500 00	
		$1,977,196 49

FIRE DEPARTMENT.

Salaries.....	$110,600 00	
Apparatus.	6,876 00	
" repairs.....	12,259 00	
Accidents.....	1,200 00	
Feed.....	7,500 00	
Amounts carried forward.....	$138,435 00	$2,273,566 77

STATEMENT B—Continued.

Amounts brought forward.....	$138,435 00	$2,273,566 77
Fuel.....	1,500 00	
Furniture.....	810 50	
Harness.....	900 00	
Horse-shoeing.....	1,404 99	
Hose.....	2,000 00	
Horses.....	3,500 00	
Ground rents.....	1,200 00	
Gaslight.....	1,000 00	
Oils, grease, paints, &c.....	1,250 00	
Office expenses, including pay of Messenger.....	500 00	
Washing.....	1,300 00	
Police and Fire Alarm Telegraph.....	12,508 50	
Insurance premiums on lives of members.....	2,250 00	
Miscellaneous.....	1,200 00	
Medicines.....	100 00	
Repairs of Engine Houses.....	10,000 00	
		$179,858 99
CITY LIBRARY.		
Stationery for the several departments.....		$4,500 00
HEALTH DEPARTMENT.		
Cleaning streets and garbage.	$180,000 00	
Contract for removal of garbage.....	13,500 00	
Amounts carried forward.....	$193,500 00	$2,457,925 76

STATEMENT B—Continued.

Amounts brought forward.....	$193,500 00	$2,457,925 76
General health.....	12,000 00	
Nuisances and sewers.....	6,000 00	
Salaries.....	18,000 00	
Cleaning cesspools of Public Schools.....	3,500 00	
Marine Hospital.....	15,000 00	
Post mortems.....	300 00	
		$248,300 00

CITY COMMISSIONER'S DEPARTMENT.

Repairs of paved streets.....	$60,000 00	
Repairs of bridges	4,500 00	
Repairs of sewers and inlets...	6,000 00	
Repairs of unpaved streets.....	2,000 00	
Flag and stepping stones... ...	10,000 00	
Paving in front of city property.....	800 00	
Repaving streets.....	2,000 00	
Cross streets	15,000 00	
Incidentals	25 00	
Salaries.....	9,000 00	
Harford Run sewer, (extension,) balance.....	16,196 42	
Harford Run sewer, (extension,) required for 1880.....	8,000 00	
Inlets on North avenue.....	350 00	
Bloom street sewer.....	200 00	
Amounts carried forward.....	$134,071 42	$2,706,225 76

STATEMENT B—Continued.

Amounts brought forward.....	$134,071 42	$2,706,225 76
Retaining wall at Carey street sewer.....	150 00	
Regrading Chase street.....	1,700 00	
		$135,921 42

GENERAL EXPENDITURES.

City Council, salary of members and expenses.....	54,000 00	
State tax on Five per cent. City Loan.....	9,900 00	
Ground rent on Perkins' Spring Square.....	2,052 00	
City Collector, salaries.....	43,600 00	
Dog Pound.....	1,500 00	
Ice-boat "Maryland".....	10,000 00	
Ringing Mechanics' bell.....	200 00	
Election expenses.....	8,000 00	
Lamplighters' salaries.....	43,000 00	
Supervisors of Elections.....	2,500 00	
Public printing.....	2,500 00	
Transportation to House of Correction.....	250 00	
City property, ground rents...	2,000 00	
General licenses.....	1,000 00	
General expenses.....	2,000 00	
Discount on taxes and interest.	144,000 00	
Salaries.....	66,000 00	
Amounts carried forward.....	$392,502 00	$2,842,147 18

STATEMENT B—Continued.

Amounts brought forward.....	$392,502 00	$2,842,147 18
Insurance of Bayview Asylum.....	862 50	
Mayoralty.....	2,000 00	
Commissioners for Opening Streets.....	150 00	
Expenses of squares and springs.....	5,500 00	
Refunded taxes.....	6,000 00	
Condemnation of Federal Hill, balance.....	9,003 20	
Winding clock at Maryland Institute, including balance.	150 00	
Ground rent on Riverside Park.....	3,770 62	
		419,938 32
INSPECTOR OF PUBLIC BUILDINGS.		
Repairs of Public School houses	25,000 00	
Repairs of city property.....	7,000 00	
Repairs of City Hall.....	6,000 00	
Completing Male Grammar and Primary School No. 1...	14,850 00	
Repairs of clock on No. 6 Engine House, balance.....	50 00	
Salaries.....	3,000 00	
		55,900 00
Amount carried forward..		$3,317,985 50

STATEMENT B—Continued.

Amount brought forward.....		$3,317,985 50
HARBOR BOARD.		
Harbor and Middle Branch....	100,000 00	
Maintenance of Ice Boat "F. C. Latrobe".....	10,000 00	
Repairs of public wharves.....	5,000 00	
		115,000 00
COURT HOUSE AND RECORD BUILDINGS.		
Salary of superintendent and watchman, and cleaning, heating, &c.....		5,107 80
CITY AND CIRCUIT COURT HOUSE.		
Salary of superintendent and watchman, and cleaning, heating, &c.....		3,600 00
DEPARTMENT OF LAMPS.		
Gas	130,000 00	
Lamp pillars and lamps and oil.....	24,200 00	
		154,200 00
SUPERINTENDENT OF CITY HALL.		
400 tons of coal, @ $4.75 per ton	1,900 00	
Amounts carried forward	$1,900 00	$3,595,893 30

STATEMENT B—Continued.

Amounts brought forward....	$1,900 00	$3,595,893 30
Gas.....	4,000 00	
Cleaning Council chambers, rooms, corridors, &c.....	4,800 00	
Repairs of furniture, gas and water fixtures.....	1,000 00	
Covering and uncovering chandeliers, mirrors, &c.....	200 00	
Incidental expenses.....	400 00	
New furniture, oil-cloth, carpets, lignum, &c	1,000 00	
Ice.....	300 00	
Winding up City Hall clock, Police and Fire Alarm striker, &c.....	500 00	
Removing ashes, dirt, &c	250 00	
Cleaning carpets, mats, curtains, drapery, &c.....	250 00	
Brooms, buckets, feather dusters, soap, brushes, &c.....	350 00	
Laborer, @ $50 per month.....	600 00	
		15,550 00
CITY POOR.		
Maintenance of Bayview Asylum.....	65,000 00	
Transportation of poor to homes.....	1,000 00	
Amounts carried forward.....	$66,000 00	$3,611,443 30

STATEMENT B—Continued.

Amounts brought forward.....	$66,000 00	$3,611,443 30
Dispensaries.....	4,000 00	
St. Mary's Industrial School...	20,000 00	
Mount Hope Retreat.....	13,000 00	
Washington University Hospital.....	4,500 00	
University of Maryland	4,500 00	
Deaf and dumb at Frederick.	850 00	
Maryland Hospital for Insane.	26,000 00	
House of Refuge.....	20,000 00	
House of Reformation and Instruction for Colored Children.....	15,000 00	
Widows and orphans, war 1812.....	200 00	
Old defenders, war 1812.... ...	300 00	
Transportation of boys to Colored House of Reformation.	300 00	
		174,650 00

CERTAIN EXPENSES.

Baltimore City Court.....	20,000 00	
Coroners.....	2,400 00	
Court of Common Pleas.....	22,000 00	
Circuit Court	9,500 00	
Judgments and Suits.....	15,000 00	
Baltimore City Jail	42,500 00	
Orphans' Court.....	8,000 00	
Magistrates.....	13,500 00	
Amount carried forward.....	$132,900 00	$3,786,093 30

STATEMENT B—Continued.

Amounts brought forward.....	$132,900 00	$3,786,093 30
Removed cases.....	5,000 00	
Registration	13,000 00	
Superior Court.....	20,000 00	
Supreme Bench.....	2,650 00	
Criminal Court.....	75,000 00	
		248,550 00

STATE POLICE.

Salaries of offices and men, and expenses.....		590,000 00

OPENING AND WIDENING STREETS.

Biddle street, city's proportion of expenses.....	1,331 42	
Bond street, city's proportion of expenses.....	1,717 63	
Broadway, city's proportion of expenses.....	28,661 48	
Caroline street, city's proportion of expenses.....	4,987 55	
Chew street, city's proportion of expenses.....	20 80	
Ensor street No. 2, city's proportion of expenses.....	288 09	
Eager street, city's proportion of expenses.....	284 35	
Amounts carried forward.....	$37,291 32	$4,624,643 30

STATEMENT B—Continued.

Amounts brought forward.....	$37,291 32	$4,624,643 30
Ensor street No. 1, city's proportion of expenses.....	1,020 52	
Hull street, city's proportion of expenses.....	11 90	
Jones street, city's proportion of expenses.....	2,284 08	
Lawrence street, city's proportion of expenses.....	4,522 85	
Marshall street No. 4, city's proportion of expenses.....	1,286 35	
McHenry street, city's proportion of expenses.....	55 44	
McKim street, city's proportion of expenses.....	3,981 72	
North street, city's proportion of expenses.....	34 40	
Oliver street, city's proportion of expenses.....	8,588 80	
Porter street, city's proportion of expenses.....	2,690 00	
Race street sewer, city's proportion of expenses.....	448 45	
Robert street, city's proportion of expenses.....	24,449 90	
Truxton street, city's proportion of expenses.....	451 97	
Valley street, city's proportion of expenses.....	284 34	
Amounts carried forward.....	$87,402 04	$4,624,643 30

STATEMENT B—Concluded.

Amounts brought forward.....	$87,402 04	$4,624,643 30
Vincent alley, city's proportion of expenses.....	212 23	
Wilmer alley, city's proportion of expenses.....	199 98	
Decatur street, city's proportion of expenses.....	6,600 00	
		94,414 25
PUBLIC SCHOOLS.		
Salaries of teachers and officers	462,000 00	
Rents and ground rents.....	29,000 00	
Books and stationery.....	40,000 00	
Heating apparatus and its repairs.....	11,000 00	
Furniture	7,000 00	
Fuel.....	13,000 00	
Repairs and cleaning of furniture, &c.....	7,000 00	
Incidentals, printing, &c.....	7,000 00	
Colored Schools.....	64,000 00	
		640,000 00
		$5,359,057 55

STATEMENT C.

Estimated Receipts from Taxes in arrear and other sources of Revenue, for the fiscal year ending December 31st, 1880.

Overdue taxes, estimated receipts during the year 1880	$1,100,000 00
Baltimore and Ohio Railroad Company, interest on Five Million Loan	300,000 00
Baltimore and Ohio Railroad Company, dividend on stock	260,000 00
Water Board, interest on Water Stock 1894 and 1916	433,690 00
City Passenger Railway Companies, interest on Park Stock	33,333 00
Department of Finance, interest on One Million Loan and loan and endorsement for Western Maryland Railroad Co	190,500 00
Public Schools, from State and tuition fees	180,000 00
Fines from Sheriff	800 00
Jail Visitors	4,000 00
Fines from Magistrates	900 00
Bayview Asylum	1,800 00
Marine Hospital	9,000 00
Sale of refuse	2,000 00
Amount carried forward	$2,516,023 00

Amount brought forward	$2,516,023 00
Fire Department	1,200 00
Permits for sheds, signs, &c	3,000 00
Vaults and areas	1,000 00
Inspector and Sealer of Gas Meters	3,000 00
Markets, net	44,000 00
Wharfage, net	20,000 00
General License	35,000 00
Turnpike dividends	600 00
Theatricals	1,500 00
City seal	1,000 00
Auction duties	11,500 00
Interest on taxes in arrear	60,000 00
	$2,697,823 00

STATEMENT D.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector of Taxes	Cash received from other sources.
Baltimore City Court	$18,000 00	$18,000 00	$18,000 00		
Coroners	2,475 00	2,550 00	2,550 00		
Court of Common Pleas	21,462 56	21,500 00	21,500 00		
Circuit Court	9,163 25	10,000 00	10,000 00		
Fines		831 70			$831 70
Judgments and Suits	4,534 09	5,000 00	5,000 00		
Jail Visitors	44,542 12	48,770 44	45,000 00		3,770 44
Orphans' Court	7,771 56	8,000 00	8,000 00		
Magistrates	13,115 00	14,425 50	13,500 00		925 50
Removed Cases	3,546 67	5,000 00	5,000 00		
Registration	12,000 00	12,000 00	12,000 00		
Superior Court	18,588 70	19,534 85	19,534 85		
Supreme Bench	2,650 00	2,650 00	2,650 00		
Certain Expenses		190,767 80		190,767 80	
Criminal Court	74,439 02	79,560 32	75,129 20	4,431 12	
Public Schools	540,393 62	1,172,567 36	600,000 00	404,339 37	168,227 99
Colored "	59,604 35	18,558 44			18,558 44
City Poor	2,617 90	125,743 55		123,125 65	2,617 90
Bayview Asylum	54,926 91	56,885 59	55,000 00		1,885 59
Transportation of Poor	747 14	1,001 00	1,000 00		1 00
Dispensaries	4,000 00	4,000 00	4,000 00		
St. Mary's Industrial School	20,000 00	20,000 00	20,000 00		
Mt Hope Retreat	12,157 52	12,300 00	12,300 00		
Washington University Hospital	4,212 43	9,000 00	9,000 00		
University of Maryland	4,056 44				

Deaf and Dumb at Frederick	490 20	500 00	500 00		
Maryland Hospital for Insane	24,159 94	25,000 00	25,000 00		
House of Refuge	17,375 87	20,000 00	20,000 00		
" Reformation and Instruction for Colored Children	15,000 00	15,000 00	15,000 00		
Widows and Orphans War 1812	200 00	200 00	200 00		
Old Defenders War 1812	300 00	300 00	300 00		
Park Sinking Fund	12,210 57	12,210 57			12,210 57
City Hall Sinking Fund	5,593 61	5,593 61		5,593 61	
Jones' Falls 1900 Sinking Fund	173 78	173 78		173 78	
Funded Debt 1868 "	2,794 65	2,794 65		2,794 65	
" 1874 "	173 78	173 78		173 78	
Harbor Commission	74,887 24	82,082 50	82,000 00		82 50
Building new Ice Boat	39,002 65	39,002 65	39,002 65		
Expenses of Ice Boat F. C. Latrobe	9,608 52	10,000 00	10,000 00		
Dredging Middle Branch Patapsco River	12,184 81	15,000 00	15,000 00		
Repairs of Wharves	4,330 18	5,000 00	5,000 00		
Wharf at foot of Cross street		1,975 00	1,975 00		
State Police	584,719 01	1,127,840 15	600,000 00	527,840 15	
Health Department.					
Cleaning Streets	192,061 21	193,500 12	193,500 00		12
Nuisances and Sewers	6,191 83	6,500 00	6,500 00		
Marine Hospital	15,042 01	24,950 87	15,000 00		9,950 87
Refuse		3,062 48			3,062 48
General Health	33,022 45	33,025 00	33,025 00		
Fire Department.					
Fire Board	155,993 63	157,263 12	156,000 00		1,263 12
Repairs of Engine Houses	7,041 59	7,100 00	7,100 00		
Amounts carried forward	**$2,147,561 81**	**$3,646,894 83**	**$2,164,266 70**	**$1,259,239 91**	**$223,388 22**

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector.	Cash received from other sources.
Amounts brought forward	$2,147,561 81	$3,646 894 83	$2,164,266 70	$1,259,239 91	$223,388 22
Inspector of Buildings.					
Inspector of Buildings, Salaries and Incidentals	3,004 00	$3,100 00	$3,100 00		
Building Male Grammar and Primary School No. 1	4,150 67	9,000 00	9,000 00		
Building English-German School No 3	15,413 28	16,000 00	16,000 00		
Enlarging Grammar and Primary School No. 20	6,155 25	7,000 00	7,000 00		
Permits for Sheds, Signs, &c	1,010 12	4,785 19			$4,785 19
Repairs of Public Schools	21,178 02	21,400 00	21,400 00		
" City Property	6,860 90	6,928 00	6,928 00		
Park Commission.					
Druid Hill and Patterson Parks	89,538 53	87,788 34			87,788 34
Riverside Park	11,834 43	12,190 87	12,170 62		20 25
Harlem Square	2,048 73	2,050 00	2,050 00		
City Commissioner's Department.					
City Commissioner, Salaries and Incidentals	9,510 80	9,525 00	9,525 00		
Harford Run Sewer	1 875 63	18,072 25	18,072 25		
Chatsworth Run Sewer	5,497 39	5,650 00	5,500 00		150 00
Race Street "		48 45	48 45		
Carey " "	1,816 72	1,979 82	1,979 82		
Eastern Ave. "		600 00	600 00		

Bloom Street Sewer	1,620 18	1,820 18	1,820 18		
North Avenue Sewer, over Harford Run	8,299 37	8,300 00	8,300 00		
" Sewers, connecting with Greenmount Cemetery	2,680 00	2,680 00	2,680 00		
Paving City Property	280 66	800 00	800 00		
Flag and Stepping-Stones	9,961 12	10,000 00	10,000 00		
Vaults and Areas		1,713 95			1,713 95
Shelling Ferry Bar road	110 25	150 00	150 00		
" Loney's lane	200 00	200 00	200 00		
Repaving Streets	1,824 08	2,000 00	2,000 00		
Iron Plates over Gutters	3,461 16	3,675 13	3,600 00		75 13
Inlets at Baker Circle	234 40	281 94	281 94		
Cross Streets	22,123 94	25 000 00	25,000 00		
Repairs of Paved Streets	54,731 97	55,395 73	55,000 00		395 73
" Unpaved "	1,447 64	1,500 00	1,500 00		
" Sewers	5,979 58	6,427 60	6,000 00		427 60
" Bridges	3,473 47	3,500 00	3,500 00		
Red Glass for Street Lamps	216 76	216 76	216 76		
Improvement of Jones' Falls	305,660 31	100 00			100 00
Regrading Chase street	13 60	1,700 00	1,700 00		
" Carlton "	336 06	342 00	342 00		
Superintendent of Lamps and Inspector and Sealer of Gas Meters' Department.					
Inspecting and Sealing Gas Meters	3 90	3,224 40			3,224 40
Lamp Pillars and Lamps	21,006 18	23,295 95	23,200 00		95 95
Gas	110,115 59	130,075 00	130,075 00		
General Expenditures.					
General Expense	1,470 53	2,000 00	2,000 00		
Codifying Ordinances and Statutes	1,400 00	1,400 00	1,400 00		
Masonic Hall	2,988 89	2,992 00	2,992 00		
Court House	4,298 13	4,300 00	4,300 00		
Amounts carried forward	$2,891,394 05	$4,146,103 39	$2,564,698 72	$1,259,239 91	$322,164 76

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns	Cash received from Collector.	Cash received fr m other sources.
Amounts brought forward	$2,891,394 05	$4,146,103 39	$2,564,698 72	$1,259,239 91	$322,164 76
State Tax on Water 5 per cent Loans	8,024 62	13,000 00	13,000 00		
Broadway Hall	64 83	1,479 00	100 00		1,379 00
Perkins' Spring Square	3,051 13	3,052 00	3,052 00		
Union Square	949 69	1,000 00	1,000 00		
Mt. Vernon Squares	700 00	700 00	700 00		
Eutaw "	1,498 79	1,500 00	1,500 00		
Park Place Square	1,000 00	1,000 00	1,000 00		
Franklin "	880 86	1,000 00	1,000 00		
Madison "	1,798 63	1,800 00	1,800 00		
Lafayette "	1,147 99	1,200 00	1,200 00		
Jackson "	732 12	850 00	850 00		
Eastern Spring Square	747 42	1,000 00	1,000 00		
Broadway Squares	1,599 86	1,600 00	1,600 00		
Baker Circle	100 00	100 00	100 00		
Interest on Stock Debt	1,344,527 47	2,538,537 98	1,954,875 48		583,662 50
Commissioners for Opening Streets	102 84	150 00	150 00		
City Collector	42,635 78	42,700 00	42,700 00		
Lafayette Market	399 54	760 26	182 76		577 50
Centre "	856 43	8,416 98	81 80		8,335 18
Belair "	591 10	8,272 55			8,272 55
Fell's Point "	700 15	6,106 58	103 00		6,003 58
Lexington "	747 11	11,364 65	122 30		11,241 75
Richmond "	537 65	4,048 32	86 90		3,961 42
Hanover "	742 34	4,850 49	107 00		4,743 49
Cross Street "	1,259 45	3,598 94	1,030 00		2,568 94
Hollins "	346 80	3,600 45	41 35		3,559 10

Hollins Hall		48 00			48 00
Cross Street Hall	45 00	244 00			244 00
Dog Pound	2,728 02	3,161 51	2,800 00		361 51
Ice Boat Maryland	22,000 00	22,000 00	22,600 00		
Ringing Mechanics' Bells	200 00	200 00	200 00		
Elections	7,616 77	8,000 00	8,000 00		
Printing Laws of Maryland 1729 to 1830	1 114 00	1,200 00	1,200 00		
Klemm's Map of Baltimore	35 00	35 00	35 00		
Lamplighters	42,432 00	43,000 00	43,000 00		
Tax Sales	17,217 28	8,721 47			8,721 47
Supervisors of Elections	1,974 69	2,500 00	2,500 00		
Printing new City Code	1,720 00	1,720 00	1,720 00		
Lithographing Maps of Harbor	300 00	300 00	300 00		
Public Printing	2,577 36	3,204 00	3,180 00		24 00
Superintendent of City Hall	13,630 78	15,000 00	15,000 00		
Transportation to House of Correction	208 60	250 00	250 00		
Post Mortem Examinations	75 00	300 00	300 00		
Wharfage	7,254 60	27,018 15	230 00		26,788 15
City Librarian	6,081 37	7,000 40	7,000 00		40
City Property	1,583 04	3,946 75	2,000 00		1,946 75
General Licenses	915 37	37,070 73	1,000 00		36,070 73
Mayoralty	1,375 80	2,000 00	2,000 00		
Interest	140,557 69	333,417 11	140,000 00	193,327 77	89 34
City Council	50,006 98	50,010 00	50,000 00		10 00
Salaries	64,000 21	64,361 45	64,361 45		
Insurance on Bayview	855 00	862 50	862 50		
Miscellaneous.					
Water Board	644,674 90	554,272 00			554,272 00
Permanent Supply	838,387 26	882,656 50			882,656 50
Jones' Falls 1900 6 per cent. Loan		49,166 75			49,166 75
" " 5 " "		94,785 50			94,785 50
Funding Loan of 1916		93,600 00			93,600 00
Amounts carried forward	$6,176,703 88	$9,117,842 81	$4,960,020 26	$1,452,567 68	$2,705,254 87

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER		Appropriat'ns.	Cash received from Collector.	Cash received from other sources.
	DR.	CR.			
Amounts brought forward	$6,176,703 38	$9,117,842 81	$4,960,020 26	$1,452,567,68	$2,705,254 87
Turnpike Dividends		936 46			936 46
Western Maryland Railroad Company	53,520 00	52,965 00			52,965 00
Sale of City Code of 1879		87 00			87 00
New Lafayette Market		111 84			111 84
" Cross Street "		938 80			938 80
" Lexington "		598 08			598 08
" Richmond "		167 20			167 20
Sale of City Property	469 55	10,072 99			10,072 99
Loans	812,500 00	631,500 00			631,500 00
Portrait of late Mayor Geo. P. Kane	300 00	300 00	300 00		
Sarah Ann Fowler's Estate	130 00	1,401 30			1,401 30
United States Government		62,498 80			62,498 80
Special Appropriations	7,605 36	7,686 24	7,686 24		
Internal Improvements		19,410 12		19,410 12	
Direct Tax		1,572,143 49		1,572,143 49	
Miscellaneous Stocks		665,475 84		665,475 84	
Theatricals		1,957 00			1,957 00
City Seal		1,389 90			1,389 90
Refunded Taxes	9,977 00	10,000 00	10,000 00		
Auction Duties		11,541 73			11,541 73
Condemnation of Chatsworth Run Sewer	378 70				
" Federal Hill	67,227 22	76,230 42	76,230 42		
Opening, Closing and Widening Streets		124,150 87		124,150 87	
Widening Eutaw street	70,153 90	100,148 52	61,171 81	38,026 71	950 00
" Orleans street	87 75	472 67	472 67		
Closing Humes street	150 00				

Closing Ferry Point road	29 18				
" a lane from Madison avenue to Eutaw street	197 81	40 00		40 00	
" a lane from North ave. to Presstman street		20 00		20 00	
Opening Wilkens' avenue		10 00			10 00
" Wilcox street		2 25		2 25	
" Decatur street		4,595 75	4,595 75		
" Marshall street No. 3		4,449 10	4,449 10		
" Ensor street	429 99	1,039 89	1,020 52	19 37	
" Lexington street	359 54	963 43	963 43		
" Bond street		2,698 75	1,717 63	981 12	
" Presstman street	534 92				
" McHenry street		66 64	55 44	11 20	
" McKim street		4,051 47	3,981 72	69 75	
" Valley street		1,318 16		1,318 16	
" St Paul street	5,242 50	3,925 60	1,118 37	2,807 23	
" North street	289 38	650 00		650 00	
" Franklin street	11 89	196 37	196 37		
" Chew street		20 80	20 80		
" Broadway		36,996 42	28,661 48	8,334 94	
" Bloom street		40 00			40 00
" Biddle street		1,430 40	1,331 42	98 98	
" Marshall street No. 4		1,286 35	1,286 35		
" Forrest street	27 25	325 58	325 58		
" Caroline street		7,337 99	4,987 55	2,350 44	
" Oliver street	417 25	11,015 79	8,588 80	2,426 99	
" Castle street	5,570 00	5,969 89	3,172 38	2,617 51	180 00
" Eager street	218 35				
" Marshall street No. 5	32 50				
" Covington street	10 00	18 75		18 75	
" Addison alley	2,495 95	2,835 70	1,661 22	1,174 48	
Amounts carried forward	$7,215,069 37	$12,561,332 16	$5,184,015 31	$3,894,715 88	$3,482,600 97

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER		Appropriat'ns.	Cash received from Collector.	Cash received from other sources.
	DR.	CR.			
Amount brought forward	$7,215,069 37	$12,561,332 16	$5,184,015 31	$3,894,715 88	$3,482,600 97
Opening 66 ft. alley Oliver street to North avenue	7,900 70	8,353 78	1,826 25	6,527 53	
" Wilmer alley	283 16	382 54	199 98	182 56	
" Vincent alley	430 63	250 78		250 78	
" Boundary avenue		30 00			30 00
" Lawrence street	308 60				
" Federal street	1,166 38				
" Bruce alley	447 52				
" Robert street	363 13				
" Choptank street		12 00			12 00
" Eden street	47,593 50	40,891 15	20 504 03	10,231 10	10,156 02
" Truxton street	284 23				
" Wolfe street	914 45	31 28		31 28	
Paving Stricker street	175 13	176 36	175 13	1 23	
" Boston street	1,418 36	1,863 14	1,418 36	444 78	
" Hampstead street		200 00		200 00	
" Sterrett street		826 04		826 04	
" Hoffman street		168 81		168 81	
" Aliceanna street	121 02	121 02	121 02		
" Frederick avenue		292 46		292 46	
" Baker street No 2		323 09		323 09	
" Oliver street		550 93		550 93	
" McCabe street		135 54		135 54	
" Eager street	89 03				
" Chew street	176 11				
" McElderry street	2,291 82	214 49		214 49	

Paving Ostend street		377 68		377 68	
" Pearl street	152 50	46 29		46 29	
" Bethel street	710 77				
" Hall alley		154 96		154 96	
" King street	236 34				
" Jackson street	8,315 99	1,682 08		1,682 08	
" Fayette street		300 51		300 51	
" Spring street		21 39		21 39	
" Baltimore street		3,316 88		3,316 88	
" West Falls avenue		1,567 51	1,567 51		
" Broadway		1,656 36	1,656 36		
" Dover street	17 90				
" Foster alley		72 73		72 73	
" Canton avenue	354 06				
" Vincent alley	432 46	95 62		95 62	
" Hammond alley	44 78				
" South street	171 11	247 75	247 75		
" Lombard street	1,330 26	1,330 26	1,330 26		
" Second street		699 74	699 74		
" Pitcher street		291 94		291 94	
" Mason alley	324 59	43 12		43 12	
" Covington street	636 52	158 74		158 74	
" Post Office avenue	69 71	69 71	69 71		
" Beason street	826 01	233 66		233 66	
" Baker street	377 60				
" Courtland street		19 64		19 64	
" Townsend street		1,984 19		1,984 19	
" Argyle avenue	858 58	212 81		212 81	
" Light street	190 69	295 93	258 69	37 24	
" Washington street		4,262 94		4,262 94	
" Lanvale street		1,198 50		1,198 50	
" Jackson court		103 03		103 03	
" Bounty lane		14 37		14 37	
Amounts carried forward	$7,294,062 92	$12,636,613 91	$5,214,090 10	$3,929,724 82	$3,492,798 99

STATEMENT D—Concluded.

NAMES OF ACCOUNTS.	FACE OF LEDGER.		Appropriat'ns.	Cash received from Collector.	Cash received from other sources.
	DR.	CR.			
Amounts brought forward	$7,294,062 92	$12,636,613 91	$5,214,090 10	$3,929,724 82	$3,492,798 99
Paving Exeter street		243 78		243 78	
" Pratt street		1,159 33		1,159 33	
" St. Paul street		114 52		114 52	
" Calvert street		768 90		768 90	
" Saratoga street		2,729 73		2,729 73	
" Eden street		72 99		72 99	
" 15 ft. alley from Wilson to Presstman street		84 84		84 84	
" Marshall street	2,429 30	35 88		35 88	
" Mount street		418 10		418 10	
" Lancaster street		566 15	566 15		
Paving Interest		552 89		552 89	
Mayor and City Council	5,214,656 25				
Cash	7,428,704 77	7,296,492 22			
Total	$19,939,853 24	$19,939,853 24	$5,214,656 25	$3,935,905 78	$3,492,798 99

STATEMENT E.

Receipts and Disbursements from December 31, 1878 to December 31, 1879.

	Receipts.	Disbursements.
January	$672,341 24	$809,366 00
February	731,268 67	433,287 46
March	420,406 99	264,649 57
April	240,811 34	550,955 86
May	405,649 17	1,009,804 95
June	1,808,210 57	446,851 76
July	354,484 55	726,245 55
August	293,912 35	560,396 45
September	169,676 94	673,166 47
October	540,012 30	403,101 47
November	1,054,493 86	781,093 87
December	737,436 79	637,572 81
	$7,428,704 77	$7,296,492 22
Balance December 31, 1878..	196,497 50	
Balance December 31, 1879..		328,710 05
	$7,625,202 27	$7,625,202 27

STATEMENT F.

FIVE MILLION LOAN SINKING FUND.

The condition of the Sinking Fund for the Redemption of the Five Million Loan to the Baltimore and Ohio Railroad Company the 31st day of December 1879, is as follows:

Consolidated Loan, 1890, 6 per cent. stock	$172,200 00
Five Million Loan, 1890, 6 per cent. stock	847,300 00
One Million Loan, 1886, 6 per cent. stock	157,100 00
City Hall Loan, 1884, 6 per cent. stock	52,900 00
City Hall Loan, 1900, 6 per cent. stock	14,100 00
City Hall Loan, 1902, 6 per cent. stock	2,400 00
Funding Loan, 1900, 6 per cent. stock	45,000 00
Consolidated Loan, 1893, 6 per cent. stock	315,800 00
Park Improvement Loan, 1895, 6 per cent. stock	6,600 00
Exempt Loan, 1893, 6 per cent. stock	11,000 00
Public Park Loan, 1890, 6 per cent. stock	39,000 00
Amount carried forward	$1,663,400 00

Amount brought forward..	$1,663,400 00	
Western Maryland Railroad Loan, 1902, 6 per cent. stock.	38,400 00	
Valley Railroad Loan, 1886, 6 per cent. stock.....	45,900 00	
Jones' Falls Loan, 1900, 6 per cent. stock.....	10,200 00	
		$1,757,900 00
Water Loan, 1894, 5 per cent. stock.....	6,400 00	
Water Loan, 1916, 5 per cent. stock.....	287,100 00	
Consolidated Loan, 1885, 5 per cent. stock.....	25,500 00	
		319,000 00
Western Maryland Railroad Guaranteed Bonds, (registered).....	23,000 00	
Western Maryland Railroad Guaranteed Bonds, (coupon).	56,500 00	
		79,500 00
Bills receivable, paving notes of Mayor and City Council..		9,170 45
		$2,165,570 45
Cash.....		6,908 99
		$2,172,479 44

STATEMENT G.

WESTERN MARYLAND RAILROAD SINKING FUND.

The condition of the Sinking Fund for the Redemption of the Bonds of the Western Maryland Railroad Company, guaranteed by the City of Baltimore, December 31st, 1879, is as follows:

Consolidated Loan, 1890, 6 per cent. stock	$9,100 00	
Consolidated Loan, 1893, 6 per cent. stock	3,600 00	
One Million Loan, 1886, 6 per cent. stock	800 00	
Western Maryland Railroad, 1902, 6 per cent. stock	500 00	
Public Park Loan, 1890, 6 per cent. stock	100 00	
Five Million Loan, 1890, 6 per cent. stock	100 00	
		$14,200 00
Water Loan, 1916, 5 per cent. stock	12,800 00	
Water Loan, 1894, 5 per cent. stock	100 00	
Consolidated Loan, 1885, 5 per cent. stock	500 00	
		13,400 00
Western Maryland Railroad Guaranteed Bonds, (registered)	9,000 00	
Western Maryland Railroad Guaranteed Bonds, (coupon)	147,500 00	
		156,500 00
Cash		401 59
Total		$184,501 59

COMMUNICATIONS.

HEALTH DEPARTMENT—CITY HALL.

Baltimore, January 5, 1880.

Estimate for expenses for Health Department for the year 1880:

Street and garbage	$180,000
Contract for the removal of garbage	13,500
General health	12,000
Nuisance and sewers	6,000
Salaries	18,000
Cleaning cesspools, Public Schools	3,500
Marine Hospital	15,000
Post mortems	300
	$248,300

JAMES A. STEWART,
Commissioner of Health.

OFFICE BOARD OF FIRE COMMISSIONERS.

Baltimore, January 1, 1880.

JOHN A. ROBB, Esq., *City Register:*

Dear Sir—We respectfully submit herewith an estimate of expenses for the Baltimore City Fire Department for the fiscal year 1880:

Salaries	$110,600 00
Apparatus	6,876 00
Apparatus repairs	12,259 00
Accident	1,200 00
Feed	7,500 00
Fuel	1,500 00
Furniture	810 50
Harness	900 00
Horseshoeing	1,404 99
Hose	2,000 00
Horses	3,500 00
Ground rent	1,200 00
Gaslight	1,000 00
Oils, grease, paints, &c	1,250 00
Office expenses, including pay of messenger	500 00
Washing	1,300 00
Police and Fire Alarm Telegraph	12,508 50
Life Insurance premium on lives of members	2,250 00
Miscellaneous	1,200 00
Medicine	100 00
House repairs	10,000 00
	$179,858 99

Very respectfully,

SAMUEL W. REGESTER, *President.*
FERDINAND C. LATROBE, *Ex Officio,*
THOS. W. CAMPBELL,
CHAS. B. SLINGLUFF,
JAMES E. TROTT,
SAMUEL HANNAH,
J. F. MORRISON,
Board of Fire Commissioners.

Test:

GEO. A. CAMPBELL, *Secretary.*

OFFICE GENERAL SUPERINTENDENT OF LAMPS, &C.,

Baltimore, January 7th, 1880.

MR. JOHN A. ROBB, *Register of the City.*

Dear Sir:—The estimated amounts required for the year 1880 by this department are as follow:

Gas account	$130,000
Lamp pillars and lamps, including gas lamp-posts, gasoline lamp-posts, new lanterns, gas, new lanterns, gasoline, repairs of lamps, names of streets on lamps, gasoline lamp supplies and repairs	24,200

Yours truly,

F. W. KING,

General Superintendent of Lamps.

OFFICE OF INSPECTOR OF BUILDINGS,

Baltimore, January 10, 1880.

JOHN A. ROBB, Esq., *City Register.*

Sir:—The following is the estimated requirements of this office for the year 1880:

For repairs of Public School Houses		$25,000 00
For repairs of city property		7,000 00
For repairs of City Hall		6,000 00
For completion of Male Grammar and Primary School No. 1, per contract	$13,850 00	
Amounts carried forward	$13,850 00	$38,000 00

Amounts brought forward.....	$13,850 00	$38,000 00
For completion of Male Grammar and Primary School No. 1, for contingencies	1,000 00	
		14,850 00
For repairs of clock No. 6 Engine House, balance per contract.		50 00
Salaries.....		3,000 00
		$55,900 00

Yours, respectfully,

WM. H. BEETLEY,
Inspector of Public Buildings.

OFFICE OF BAYVIEW ASYLUM—CITY HALL,

Baltimore, January 5, 1880.

JOHN A. ROBB, Esq., *City Register.*

Dear Sir:—In making up your estimate for the expenses for the various departments of the city government for the current fiscal year, you will please ask for an appropriation of sixty-five thousand dolars ($65,000) for Baltimore City Almshouse.

Very respectfully,

JOSEPH FRIEDENWALD,
President of Board of Trustees.

BALTIMORE, January 10, 1880.

JOHN A. ROBB, Esq., *City Register.*

Dear Sir:—Estimated expense of the Criminal Court, Record Office and grounds, for the year 1880:

Superintendent	salary	$1,200 00
Watchman	"	1,000 00
Attending Ladies' Ordinary	"	300 00
Servants attending Criminal Court	"	384 00
Servants attending Court of Com. Pleas	"	180 00
Servants attending Superior Court	"	240 00
Servants attending Record Office	"	120 00
For new furniture and keeping old in repair		175 00
Buckets, brooms, brushes, soaps, towels, &c		30 00
Repairing stoves and for two new ones		200 00
For new coal hods and keeping old in repair		25 00
Repairing gas and water fixtures and gas globes		50 00
Removing ashes and cleaning cellars		75 00
Whitewashing Court-house and Record office		50 00
Sweeping chimneys		5 00
Coal and wood and storing away		425 00
Gas bills		200 00
Ice bills		150 00
Cleaning and repairing carpets, oil cloth, matting, &c		125 00
New ice coolers and keeping old in repair		25 00
For new locks and keys and keeping in repair		50 00
Deficiency bill for 1879, for carpets, oil cloth, matting, &c		98 80
		$5,107 80

WM. H. CLIFFORD,
Superintendent of Court House.

OFFICE OF SUPERINTENDENT CITY HALL,

Baltimore, January 1st, 1880.

JOHN A. ROBB, Esq., *City Register.*

Dear Sir:—The following is the estimate of expense for this department, for the year ending December 31st, 1880:

Gas	$4,000 00
Coal, 400 tons, at $4.75 per ton	1,900 00
Cleaning Council chambers, rooms, corridors, &c.	4,800 00
Repairs to furniture, gas and water fixtures	1,000 00
Covering and uncovering chandeliers, mirrors, &c.	200 00
Incidental expenses	400 00
New furniture, oil cloth, carpets, lignum, &c.	1,000 00
Ice	300 00
Winding up City Hall Clock, Police and Fire Alarm Telegraph Striker, &c	500 00
Removing ashes, dirt, &c., from City Hall	250 00
Cleaning carpets, mats, curtains, drapery, &c	250 00
Brooms, brushes, feather dusters, soap, buckets, muslin, &c	350 00
One laborer, at $50.00 per month	600 00
	$15,550 00

Respectfully submitted,

JAMES DONNELLY,

Superintendent.

CITY COMMISSIONER'S OFFICE,

Baltimore, January 5th, 1880.

JOHN A. ROBB, Esq., *City Register.*

Dear Sir:—The following is a statement of moneys required for the City Commissioner's department, for the year ending December 31st, 1880:

Repairs of paved streets	$60,000 00
" bridges	4,500 00
" sewers and inlets	6,000 00
" unpaved streets	2,000 00
Flag and stepping stones	10,000 00
Paving in front of city property	800 00
Repaving streets	2,000 00
Cross streets	15,000 00
Incidentals	25 00
Salaries	9,000 00
Harford Run sewer (extension) balance, 1879	16,196 42
" " " for 1880	8,000 00
Inlets on North avenue	350 00
Bloom street sewer	200 00
Retaining wall at Carey street sewer	150 00
Regrading Chase street	1,700 00
	$135,921 42

J. H. TEGMEYER,

Commissioner.

OFFICE OF THE COMMISSIONERS OF PUBLIC SCHOOLS,

Baltimore, January 7th, 1880.

MR. JOHN A. ROBB, *Register.*

Dear Sir :—The following are the amounts required for Public School purposes, for the present year, (1880), as estimated by the Committee on Accounts, in conjunction with the President of the Board :

For Salaries	white schools	$462,000
" Rents and ground rents	"	29,000
" Books and stationery	"	40,000
" Heating apparatus and its repairs	"	11,000
" Furniture	"	7,000
" Fuel	"	13,000
" Repairs and cleaning of furniture, &c.	"	7,000
" Incidentals, printing, &c		7,000
" Colored schools		64,000
Total		$640,000

Respectfully submitted,

By order,

H. M. COWLES,

Secretary.

OFFICE OF THE HARBOR BOARD OF BALTIMORE—CITY HALL,

Baltimore, January 6, 1880.

JOHN A. ROBB, Esq., *City Register.*

Dear Sir:—I have advised the Board that we shall require amounts as below—they *may* cut them *down*, but *certainly* will *not* raise them:

Harbor and Middle Branch	$100,000 00
Maintenance of Ice Boat	10,000 00
Repairs of Public Wharves	5,000 00
Unexpended balance on Cross st. wharf, (which I do not think will ever be called for)	1,975 00
Total	$116,975 00

This *includes* any amounts received from the State for "duties on Auctioneer's sales."

Very truly and respectfully yours,

N. H. HUTTON, *Secretary.*

REPORT

OF THE

DEPARTMENT OF FINANCE

FOR THE YEAR 1879.

REPORT.

BALTIMORE, December 31, 1879.

To the Honorable the Members of the
First and Second Branches of the City Council:

GENTLEMEN:

The Commissioners of Finance have the honor to submit for your consideration, statements in detail, exhibiting their transactions during the year, as follows, viz:

1. A summary of receipts and payments on account of the various Sinking Funds.

2. A statement of investment purchases.

3. A statement exhibiting the amount of investments of the Sinking Funds, December 31, 1879.

4. A statement of the consolidations of old stock issues.

5. A schedule of real estate from which income is derived.

6. A statement of the Funded Debt of the City, and of the Guarantees.

7. A balance sheet of the Sinking Funds' ledger.

8. A statement of the indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore.

The matters embraced in the foregoing are exhibited under the respective heads, in a detailed form, in the appendix to this report.

1.—Receipts and Payments.

The receipts have been derived as follows:

From cash to credit of Water Loan, 1875, December 31, 1878	$16,346 33	
Less cash to debit of Sinking Funds, December 31, 1878	6,306 05	
		$10,040 28
From dividends on Baltimore and Ohio Railroad Stock	$253,662 50	
From Baltimore and Ohio Railroad Company, on account of purchase of Pittsburg and Connellsville Railroad Bonds	40,000 00	
		$293,662 50
From interest upon investments		374,898 73
From rental of real estate		18,330 05
Amount carried forward		$696,931 56

Amount brought forward...		$696,931 56
From Western Maryland R. R. Company for rental of Hillen Station to December 15, 1879, under contract authorized by Ordinance No. 97, 1875 ..		16,000 00
(Of this amount, $2,000, being one-eighth, is set apart as a Sinking Fund).		
From tax collections, levies for increase of funds.....		8,735 82
From City Passenger Railway Company		7,062 86
From Citizens' Railway Company.....		3,461 55
From York Road Railway Company.....		272 01
From Baltimore, Peabody Heights and Waverly Railway Company.....		1,414 15
From sales of stock..... ...		498 31
		$734,376 26
The payments have been made as follows:		
For investment purchases.	$240,424 93	
For interest on Stock Debt.	444,402 50	
For balance due on Western Maryland R. R. Depot....	749 36	
For Water Stock of 1875, redeemed.....	9,700 00	
For sundry expenses.....	1,844 01	
		$697,120 80
Balance.....		$37,255 46

Balance brought forward..		$37,255 46
Cash in bank to redeem Water Stock, 1875, outstanding.....	$ 6,646 33	
Cash in bank to credit of funds.....	30,609 13	
		$37,255 46

2.—Investment Purchases.

This statement is submitted in obedience to Article XLII, Section 13, of the Code, and exhibits in detail the purchase of stocks and bonds amounting to $223,849.68, at an average cost of $107\frac{40}{100}$ per cent.

3.—The Amount of Investments of the Sinking Funds,

Exhibiting in detail the amount and condition of the investments of the funds, as shown by the books of the Commissioners of Finance.

Productive Investments:		
General Sinking Fund.....	$7,091,719 96	
Public Park Sinking Fund.	323,906 49	
Hillen Station Sinking Fund.	8,100 66	
		$7,423,727 11
Other Productive Investments:		
Real estate, as shown in Statement No. 5, from which is derived an annual rental of $19,866.86. This sum capitalized at 6 per cent., is worth	$331,114 44	
Amounts carried forward...	$331,114 44	$7,423,727 11

Amounts brought forward.	$331,114 44	$7,423,727 11
550 Shares Stock Baltimore and Reisterstown Turnpike Company.....	1,925 00	
625 Shares Stock Baltimore and Yorktown Turnpike Company.....	4,317 67	
120 Shares Stock Baltimore and Havre de Grace Turnpike Company..... ..	4,000 00	
137 Shares Stock Frederick Turnpike Company.....	206 00	
		$341,563 11
Unproductive Investments:		
Western Md. Railroad Company, 4,000 shares stock..	$200,000 00	
Western Md. Railroad Company, mortgage to secure endorsements.....	1,175,000 00	
Western Md. Railroad Company, loan of City Stock.	1,000,000 00	
Western Md. Railroad Company, accrued interest advanced.....	1,038,192 57	
Baltimore, Susquehanna and Tidewater Canal Company Stock, 7,600 shares.....	380,000 00	
Baltimore and Hall Springs Railway Company Stock, 714 shares.....	14,280 00	
Amounts carried forward...	$3,807,472 57	$7,765,290 22

Amounts brought forward.	$3,807.472 57	$7,765,290 22
Valley Railroad Company of Virginia Stock.....	1,000,000 00	
		$4,807,472 57
Total Productive and Unproductive Investments..		$12,572,762 79

INCREASE OF SINKING FUNDS.

The increase of the funds from December 31, 1878, to December 31, 1879, amounting to.....		$444,761 91
Was derived thus:		
From interest upon investments..	$374,588 73	
From dividend on Baltimore and Ohio Railroad Stock	253,662 50	
From rental of Hillen Station.....	14,000 00	
From rental of real estate..	18,330 05	
From tax collections	8,735 82	
From City Passenger Railway Company.....	7,062 86	
From Citizens' Railway Company.	3,461 55	
From York Road Railway Company.....	272 01	
From Baltimore, Peabody Heights and Waverly Railway Company.....	1,414 15	
From Western Maryland Railroad Funding Certificate..	225,930 00	
Amount carried forward....	$907,457 67	

Amount brought forward...		$907,457 67	
Deduct:			
Am't paid Mayor and City Council for interest on Stock Debt	$253,662 50		
Am't paid for interest on One Million Loan, 1886.....	60,000 00		
Am't paid for interest on West. Md. R.R. Loan, 1902.....	60,000 00		
Am't paid for interest on West. Md. R. R. Bd's.	70,740 00		
Am't paid for sundry expenses..... ...	1,844 01		
Loss in purchase of stocks.....	16,449 25		
		$462,695 76	
			$444,761 91
And disbursed and held as follows:			
For investment purchases..		$223,849 68	
For Western Md. Railroad Funding Certificate.....		225,930 00	
For balance due on Western Md. Railroad Depot.....		749 36	
For loss in purchase of stock for Hillen Station Sinking Fund.....		126 00	
Amount carried forward....		$450,655 04	

Amount brought forward...		$450,655 04	
Less am't purchases belonging to 1878.....	$33,693 95		
Less sales of stock.....	498 31		
Less am't rec'd for Hillen Station Sinking Fund.....	2,310 00		
		$36,502 26	
		$414,152 78	
Add am't on hand to credit of funds.....		30,609 13	
			$444,761 91

4.—The Consolidation of Old Stock Issues,

Authorized by Ordinances No. 92, of 1864, and No. 42, of 1867, made during the year, amounts, as shown, to a sum total of..... .... $16,322 88

5.—Real Estate.

The schedule of real estate presented in this form for convenience of reference, embraces only so much of the city property as is in control and shown upon the books of this Board, and from which income is derived by rentals.

The income derived from the public wharves and other valuable property, being applied to current ex-

penditures, does not appear in these accounts. Baltimore City Code, Section 14, Article XLII, page 717.

6.—The Funded Debt and Guarantees

Amount to a sum total of		$35,023,798 06
At date of last annual report, December 31, 1878, these issues amounted to		33,968,298 06
Amount of increase during the year		$1,055,500 00
Thus:		
Amount of Five Per Cent. Water Loan, 1894, issued.	$841,500 00	
Amount of Five Per Cent. Funding Loan, 1916, issued	90,000 000	
Amount of Five Per Cent. Jones' Falls Loan, 1900, issued	89,600 00	
Amount of Six Per Cent. Jones' Falls Loan, 1900, issued	44,100 00	
	$1,065,200 00	
Less amount of Water Loan, 1875, redeemed during the year	9,700 00	
		$1,055,500 00

Increase of Funded Debt Authorized.

The Jones' Falls Loan, by Ordinance No. 12, of 1870	$1,610,400 00
The Water Loan of 1894, by Ordinance No. 5, of 1874	378,800 00
	$1,989,200 00

7.—The Financial Condition of the Corporation.

Amount of Funded Debt, December 31st, 1879	$33,531,798 06	
Amount of Guarantee Liabilities, December 31st, 1879	1,492,000 00	
		$35,023,798 06
Less amount of cash in bank, set aside for the redemption of Water Stock, 1875, now outstanding		6,646 33
		$35,017,151 73
Of this amount interest is provided or paid as follows:		
The Baltimore and Ohio Railroad Company, upon	$5,000,000 00	
The City Passenger Railway Companies, upon	555,566 25	
The Water Board, from income, upon	8,621,200 00	
The Union Railroad Company upon,	117,000 00	
The Western Maryland Railroad Company, upon	200,000 00	
		$14,493,766 25
Amount carried forward		$20,523,385 48

Amount brought forward...			$20,523,385 48
Productive Investments:			
The Baltimore and Ohio Railroad Stock, 32,500 shares, dividends 8 per cent. per annum $260,00.00			
This provides the interest upon.....		$4,333,333 33	
Baltimore and Reisterstown Turnpike Company Stock, 550 shares.....		1,925 00	
Baltimore and Yorktown Turnpike Company Stock, 625 shares.....		4,317 67	
Frederick Turnpike Company Stock, 137 shares....		206 00	
Baltimore and Havre de Grace Turnpike Company Stock, 120 shares.....		4,000 00	
The Sinking Funds, value...		7,423,727 11	
The real estate, annual rental...	$19,866 86		
The wharf property, annual income.....	45,000 00		
The market houses, annual income.....	45,000 00		
Annual income.	$109,866 86		
This provides interest upon.		1,831,114 33	
			13,598,623 44
Balance			$6,924,762 04

Unproductive Investments:		
Western Maryland Railroad Company, 4000 shares stock	$200,000 00	
Western Maryland Railroad Company, mortgage to secure endorsement	1,175,000 00	
Western Maryland Railroad Company, loan of City Stock	1,000,000 00	
Western Maryland Railroad Company, accrued interest advanced	1,038,192 57	
Baltimore, Susquehanna and Tidewater Canal Company Stock, 7,600 shares	380,000 00	
Baltimore and Hall Springs Railway Company Stock, 714 shares	14,280 00	
Valley Railroad Company of Virginia Stock	1,000,000 00	
		$4,807,472 57

This statement does not embrace any items connected with current receipts and expenditures, but refers only to the stock and bond liabilities of the Corporation, and to investments specially set apart for redemption of the same.

In the accounts now presented for your consideration, the transactions of the past year are so fully set down as to make it unnecessary for us, at this time, to add any extended explanations; but you will not fail to notice that the increase of the funds during the year appears to be much greater than was anticipated, and amounts to so large a sum as $444,761.91.

You will be gratified by the evidence thus furnished of the efficiency of the system, and also of the sufficiency of the means provided by your city for the payment of its whole debt at maturity.

But it is to be noted that $225,930 of the large increase now reported represents over-due coupons of the Western Maryland Railroad Company, funded pursuant to authority of Ordinance No. 22 of 1879, and therefore should not be accounted as attaching solely to the increase of the past year; while the remainder, viz: $218,831.91 is the sum which more properly represents the annual increase, and also the probable minimum increase of the succeeding years.

You will also observe the large sums charged in the accounts for interest paid upon certain portions of the public debt, and that the increase noted above is the result after those large payments have been made.

Respectfully submitted,

FERDINAND C. LATROBE, *Chairman.*
JAS. SLOAN, Jr.,
ROBERT T. BALDWIN,
Commissioners of Finance.

JOHN A. ROBB.
Clerk to Commissioners of Finance.

APPENDIX.

STATEMENT

DR. *The Commissioners of Finance in account with*

To balance of cash in bank to credit of Water Loan of 1875 ..	$16,346 33	
Less balance of cash in bank to debit of Sinking Funds.....	6,306 05	
		$10,040 28
To General Sinking Fund—		
Received for fractions of stock sold.....	$498 31	
Received from rental of real estate.....	18,330 05	
Received from rental of Hillen Station.....	14,000 00	
Received for interest on stock and investments	357,395 23	
Received for account of sale of Pittsburg and Connellsville Railroad Bonds.....	40,000 00	
Received of Mayor and City Council for tax levy.....	8,735 82	
		438,959 41
To Public Park Sinking Fund—		
Received for interest on stock.....	$17,193 50	
Received from City Passenger Railway Company.....	7,062 86	
Received from Citizens' Railway Company.....	3,461 55	
Received from York Road Railway Company	272 01	
Amounts carried forward.....	$27,989 92	$448,999 69

No. 1.

the Mayor and City Council of Baltimore. CR.

By General Sinking Fund—		
Purchased fractions of City Stock	$349 68	
Purchased $47,900 of City Six Per Cent. Stock	54,439 50	
Purchased $145,100 of City Five Per Cent. Stock	153,292 00	
Paid one year's interest on One Million Loan, 1886	60,000 00	
Paid one year's interest on Western Maryland R. R. Loan, 1902.	60,000 00	
Paid interest on Western Md. R. R. Guaranteed Bonds	70,740 00	
Paid balance due on Western Md. R. R. Depot	749 36	
Paid Wm. P. Twamley, on account, for examining records and making plats of city property	1,183 65	
Paid for printing, stationery and clerical services	660 36	
		$401,414 55
By Public Park Sinking Fund—		
Purchased $23,500 of City Five Per Cent. Stock	$24,605 00	
Purchased $4,300 of City Six Per Cent. Stock	4,912 75	
		29,517 75
Amount carried forward		$430,932 30

STATEMENT

DR. *The Commissioners of Finance in account with*

Amounts brought forward.....	$27,989 92	$448,999 69
Received from Baltimore, Peabody Heights and Waverly Railway Company.....	1,414 15	
		29,404 07
To Hillen Station Sinking Fund—		
Received for interest on stock.....	$310 00	
Received of Western Maryland Railroad Company.....	2,000 00	
		2,310 00
To Baltimore and Ohio Railroad Dividends—		
Received for dividends on stock..		253,662 50
		$734,376 26

No. 1—Concluded.

the Mayor and City Council of Baltimore. CR.

Amount brought forward.....	$430,932 30
By Hillen Station Sinking Fund—	
Purchased $2,700 of City Five Per Cent. Stock.....	2,826 00
By Baltimore and Ohio Railroad Dividends—	
Paid Mayor and City Council for interest on Stock Debt.....	253,662 50
By Redemption of Water Loan, 1875—	
Paid for $9,700 Water Stock, 1875, redeemed	9,700 00
By balance cash in bank.....	37,255 46
	$734,376 26

STATEMENT No. 2.

"The Commissioners of Finance shall invest in City Stock all moneys in their hands, or to their credit in bank, received for the sale or rent of city property pledged for the redemption of the public debt; and shall also invest all moneys that may hereafter be received from the above mentioned sources, as well as all interest accruing thereon from time to time, and report to the City Council the amount purchased, and the dates and prices at which they were purchased.—Article XLII, Baltimore City Code, Section 13.

Date.	Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
1879.				
Feb. 20	General Sinking Fund.....	$200 00	Consolidated Loan 1885. ...	$206 50
Mar. 3	" "	82,100 00	Funding Loan 1916.....	85,384 00
"	Public Park Sinking Fund...	7,000 00	" "	7,280 00
"	Hillen Station Sinking Fund.	900 00	" "	936 00
April 2	General Sinking Fund.....	200 00	Consolidated Loan 1885.....	206 50
" 18	" "	200 00	" "	206 50
May 13	" "	400 00	" "	417 00
Aug. 5	" "	6,000 00	Water Loan 1916.....	6,660 00
" 6	" "	1,000 00	Funding Loan 1916.....	1,110 00
" 8	" "	10,000 00	Water Loan 1894.....	11,062 50
" 9	" "	3,200 00	" "	3,544 00
" 9	" "	5,000 00	" "	5,543 75
" 12	" "	1,200 00	Water Loan 1916.....	1,341 00
" 12	" "	800 00	" 1894.....	890 00
" 14	" "	1,800 00	Funding Loan 1916.....	2,007 00
" [illegible]	" "	1,000 00	Water Loan 1916.....	1,112 50

Oct.	1	" "	300 00	Consolidated Loan 1885.....	315 75
"	24	" "	2,000 00	Five Million Loan.....	2,245 00
"	24	" "	3,500 00	" "	3,937 50
"	24	" "	4,000 00	" "	4,510 00
"	25	" "	3,300 00	" "	3,737 25
"	25	" "	2,500 00	Consolidated Loan 1890	2,831 25
"	27	" "	1,000 00	" "	1,137 50
"	27	" "	700 00	" "	798 00
"	27	" "	900 00	" "	1,028 25
"	27	" "	3,000 00	Five Million Loan.....	3,397 50
"	27	" "	2,700 00	" "	3,064 50
"	28	" "	700 00	" "	798 00
"	28	" "	500 00	" "	571 25
"	28	" "	3,300 00	Consolidated Loan 1890....	3,762 00
"	28	Public Park Sinking Fund...	4,300 00	Public Park Loan 1890.....	4,912 75
"	29	General Sinking Fund.....	3,800 00	Five Million Loan.....	4,341 50
"	29	" "	5,800 00	Consolidated Loan 1890.....	6,626 50
"	29	" "	4,200 00	" "	4,798 50
"	30	" "	5,700 00	" "	6,512 25
"	30	" "	300 00	Five Million Loan.....	342 75
Dec.	17	" "	31,700 00	5 pr ct. Jones' Falls Loan 1900	33,285 00
"	17	Public Park Sinking Fund..	16,500 00	" "	17,325 00
"	17	Hillen Station "	1,800 00	" "	1,890 00
"	31	General Sinking Fund.....	349 68	Fractions of Stock at par....	349 68
			$223,849 68		$240,424 93

STATEMENT No. 2—Concluded.

RECAPITULATION.

Date.	Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
1879.				
Dec. 31	General Sinking Fund.....	$47,900 00	Six Per Cent. Stock	54,439 50
" 31	" "	145,100 00	Five Per Cent. Stock.....	153,292 00
" 31	" "	349 68	Fractions of City Stock.....	349 68
" 31	Public Park Sinking Fund...	4,300 00	Six Per Cent. Stock	4,912 75
" 31	" "	23,500 00	Five Per Cent. Stock	24,605 00
" 31	Hillen Station "	2,700 00	" " "	2,826 00
		$223,849 68		$240,424 93

STATEMENT No. 3.

Condition of Sinking Funds December 31st, 1903

General Sinking Fund:		
Consolidated Loan, 1890, 6 per cent. stock	$82,119	71
Five Million Loan, 1890, 6 per cent. stock	122,807	75
City Hall Loan, 1884, 6 per cent. stock	300,300	00
City Hall Loan, 1900, 6 per cent. stock	56,600	00
City Hall Loan, 1902, 6 per cent. stock	13,400	00
Funding Loan, 1900, 6 per cent. stock	134,600	00
One Million Loan, 1886, 6 per cent. stock	18,951	48
Western Maryland Railroad Loan, 1902, 6 per cent. stock	20,800	00
Park Improvement Loan, 1895, 6 per cent. stock	72,158	80
Public Park Loan, 1890, 6 per cent. stock	10,472	18
Consolidated Loan, 1893, 6 per cent. stock	1,250,341	38
Amount carried forward	$2,082,551	30

Amount brought forward...	$2,082,551 30	
Exempt Loan, 1893, 6 per cent. stock.....	353 87	
Jones' Falls Loan, 1900, 6 per cent. stock.....	5,100 00	
Valley Railroad Loan, 1886, 6 per cent. stock	636,600 00	
		$2,724,605 17
Consolidated Loan, 1885, 5 per cent. stock.....	427,241 47	
Water Loan, 1894, 5 per cent. stock.....	1,858,700 00	
Jones' Falls Loan, 1900, 5 cent. stock.....	31,700 00	
		2,317,641 47
Union Railroad Guaranteed Bonds.....		87,500 00
Western Maryland Railroad Guaranteed Bonds.....	423,500 00	
Western Maryland Railroad 2d Preferred Bonds.....	178,500 00	
Western Maryland Railroad Funding Certificate.....	225,930 00	
Coupons Western Maryland Railroad First Mortgage Unendorsed Bonds	71,742 00	
		899,672 00
Amount of obligation of the Baltimore and Ohio Railroad Company received for the claim of the city against the Pittsburg and Connellsville Railroad, as authorized by Ordinance No. 47 of 1875.....	1,000,000 00	
Amounts carried forward....	$1,000,000 00	$6,029,418 64

Amounts brought forward...	$1,000,000 00	$6,029,418 64
Less payments on account of same made to the city by the Baltimore and Ohio Railroad Company.....	160,000 00	
		840,000 00
Hillen Street Station property.....	200,000 00	
Less amount of Hillen Street Station Sinking Fund, set apart for the repayment of the amount of the cost thereof	8,100 66	
		191,899 34
Cash.....		30,401 98
		$7,091,719 96
Public Park Sinking Fund:		
Consolidated Loan, 1890, 6 per cent. stock.....	200 00	
City Hall Loan, 1884, 6 per cent. stock.....	18,900 00	
City Hall Loan, 1900, 6 per cent. stock.....	8,000 00	
Funding Loan, 1900, 6 per cent. stock.....	1,200 00	
Valley Railroad Loan, 1886, 6 per cent. stock.....	29,600 00	
Amount carried forward.....	$57,900 00	

Amount brought forward...	$57,900 00	
Park Improvement Loan, 1895, 6 per cent. stock.....	9,600 00	
Public Park Loan, 1890, 6 per cent. stock.....	4,300 00	
One Million Loan, 1886, 6 per cent. stock.....	1,200 00	
Consolidated Loan, 1893, 6 per cent. stock.....	132,800 00	
		205,800 00
Water Loan, 1894, 5 per cent. stock	85,500 00	
Funding Loan, 1916, 5 per cent. stock.....	16,000 00	
Jones' Falls Loan, 1900, 5 per cent. stock.....	16,500 00	
		118,000 00
Cash.....		106 49
		323,906 49

Hillen Station Sinking Fund:

Water Loan, 1894, 5 per cent. stock.....	4,300 00	
Funding Loan, 1916, 5 per cent. stock.....	1,900 00	
Jones' Falls Loan, 1900, 5 per cent. stock.....	1,800 00	
		8,000 00
Cash.....		100 66
		$8,100 66

Recapitulation of the Condition of the Sinking Funds December 31, 1879.

General Sinking Fund	$7,091,719 96
Public Park Sinking Fund	323,906 49
Hillen Station Sinking Fund	8,100 66
	$7,423,727 11

STATEMENT No. 4.

Statement of the surrender of Old Stock Issues, and the Consolidations thereof, made during the year ending December 31st, 1879, as authorized by Ordinance No. 92, of 1864, and Ordinance No. 42, 1867.

DATE.	AFTER THE YEAR 1890.	BALT. & SUSQ. R. R. LOAN.	SUSQ. CANAL LOAN.	ALMS-HOUSE.	COURT HOUSE.
1879.					
Jan. 18	$400 00	.....	.....	.....	.....
Feb. 20	.....	$ 5,340 77	$575 89	.....	.....
April 1	300 00	1,000 00	.....	.....	.....
July 10	.....	325 00	.....	.....	.....
Oct. 7	4,792 41	.....	.....	.....	.....
Nov. 25	154 97	.....	.....	.....	.....
Dec. 2	3,433 84	.....	.....	.....	.....
	$9,081 22	$6,665 77	$575 89		
		Total.....			$16,322 88

STATEMENT No. 5.

A Schedule of Real Estate upon the books of the Commissioners of Finance.

LESSEE.	LOCATION OF LOTS.	ANNUAL RENTAL
Swain & Banks	Lots 9, 10 11, 12, President street	$ 452 25
E. A. Abbott	" 12, 13, 14, 15, north side Block street	380 41
B. S. Holt	" 16, 17, 18, 19, 20, 21, 22, 23, north side Block street	809 78
J. McNeal	Lot 9, north side Block street	56 91
C. S. Maltby	Lots 5, 6, 7, 8, north side Block street	293 60
" "	42 feet north side Block street	189 00
John Welch	Lot 11, " "	96 55
Calvert Sugar Refinery	Lots 24, 25, 26, 27, 28, 29, 30, south side Block St.	721 88
C. S. Maltby	" 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, south side Block street	1,262 24
" "	" 41, 42, 43, south side Block street	427 50
Joseph Kaufman	" 1, 2, 3, 4, 5, 6, Brown street	150 00
William Groscup	Lot 7, Brown street	33 60
C. L. Frank	" 8. "	19 20
Joseph Baumgarten	" 9, "	26 32
Wm. Kleinhenn	" 10, "	26 32
Anton Young	Lots 11, 12, "	52 64
Chas. N. Oehm	Lot 13, "	26 32
H. Klausmyer	" 14, "	25 48
Catharina Karch	" 15, "	26 32
N. Thomas & Co	Lots 17, 18, "	52 64
Frederick Kull	Lot 19, "	19 20

George Wimmer	Lot 20, Brown street	20 32
E. Snellenberg	Lots 21, 22, "	54 49
J. A. G. Goetz	Lot 23, "	29 60
August Pfeil	" 25, "	29 60
Francis Schott	" 29, "	26 32
August Pfeil	" southwest corner Light and Brown streets.	78 06
George Hickman	" on Run alley	52 00
Wilson & Hunting	Lots 5, 6, 7, 8, west side President street.	502 50
Levi Z. Condon	" 1, 2, 3, " "	537 94
Estate of Catharine Hook	Lot on Light street	75 70
John H. Hugg & Co	" corner Canton avenue and East Falls ave.	250 00
Platt & Co	Fish house property, south side of the basin.	2,025 00
Henry James	Lots 5, 6, 7, 8, 9, and part of 4, Aliceanna street, and 14, 15, 16, 17, 18, and part of 13, Lancaster street	810 93
Henry James	" 1, 2, 3, 10, 11, 12, and part of 4 and 13 on Aliceanna street and Lancaster street	674 24
Baltimore & Philadelphia Steamboat Company	200 feet on Light street wharf	3,600 00
Philadelphia, Wilmington & Baltimore R. R. Co	Lots on Canton avenue, between Albemarle and Exeter streets	2,512 00
" "	" on Canton avenue, between Exeter and Canal streets	2,580 00
Henry James	Lot south side of Aliceanna street, between Exeter and Canal streets	860 00
		$19,866 86

STATEMENT No. 6.

Statement of Funded Debt December 31, 1879.

LOAN.	RATE.	WHEN PAYABLE.	AMOUNT.
Court House	5 per cent.	At pleasure after the year 1860.	$ 85,900 00
Consolidated	5 "	" " " 1885	943,161 54
Consolidated	6 "	" " July 1, 1890	7,306,546 22
Public Park	6 "	" " Sept. 1, 1890	555,566 25
Exempt	6 "	" " Sept. 1, 1893	410,353 87
Water	6 "	" " July 1, 1894	263,000 00
Water	5 "	" " July 1, 1894	3,358,200 00
Funding	6 "	" " July 1, 1900	800,000 00
Funding	5 "	" " July 1, 1916	1,000,000 00
Water	5 "	" " July 1, 1916	5,000,000 00
City Hall	6 "	July 1, 1884	1,000,000 00
One Million	6 "	January 1, 1886	1,000,000 00
Valley Railroad	6 "	October 31, 1886	1,015,300 00
Five Million	6 "	January 1, 1890	5,000,000 00
Consolidated	6 "	September 1, 1893	2,211,068 05
Park Improvement	6 "	January 1, 1895	185,723 80
City Hall	6 "	April 15, 1900	1,000,000 00
Jones' Falls	6 "	April 9, 1900	800,000 00
Jones' Falls	5 "	April 9, 1900	89,600 00
Western Maryland R. R.	6 "	January 1, 1902	1,000,000 00
City Hall	6 "	March 7, 1902	500,000 00
Water	6 "	No interest allowed	6,646 33
Overdue Stock	6 "	" "	732 00

STATEMENT No. 6—Concluded.

Statement of Guaranteed Debt December 31, 1879.

Bonds of the Western Md. R. R. Company:		
First Mortgage to mature January 1, 1890	$200,000 00	
Second Mortgage to mature January 1, 1890	300,000 00	
Third Mortgage to mature January 1, 1900	875,000 00	
		$1,375,000 00
Of which the Register of the City holds in the Western Md. Railroad Sinking Fund, $156,500.00.		
Bonds of the Union Railroad Company to mature January 1, 1895		117,000 00
Of which the Commissioners of Finance hold in the General Sinking Fund, $87,500.00		
Total Guaranteed Debt		$1,492,000 00

STATEMENT No. 7.

Balance Sheet of the Sinking Funds' Ledger December 31, 1879.

	Dr.	Cr.
General Sinking Fund		$30,401 98
Public Park Sinking Fund		106 49
Hillen Station Sinking Fund		100 66
Redemption of Water Stock, 1875		6,646 33
Cash	$37,255 46	
	$37,255 46	$37,255 46

STATEMENT No. 8.

Statement of the indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore, December 31st, 1879.

First mortgage endorsement		$200,000 00
Second mortgage endorsement	$300,000 00	
Interest thereon to January 1st, 1880	198,000 00	
		498,000 00
Second Preferred Mortgage, bonds held by Commissioners of Finance		178,500 00
Third mortgage endorsement	$875,000 00	
Interest thereon to January 1st, 1880	472,500 00	
		1,347,500 00
Fourth mortgage, to secure loan of city stock	$1,000,000 00	
Interest thereon to January 1st, 1880	450,000 00	
		1,450,000 00
Funding certificate, being amount of matured coupons of First Mortgage Guaranteed Bonds and Second Preferred Mortgage Bonds, funded as per Ordinance No. 22, approved April 3d, 1879		225,930 00
Amount carried forward		$3,889,930 00

Amount brought forward...		$3,889,930 00
Coupons from unendorsed bonds of first mortgage, held by Commissioners of Finance.....	$ 71,742 00	
Interest due thereon to January 1st, 1880.....	17,857 45	
		89,599 45
Total.....		$3,989,529 45
Less value of Western Maryland Railroad Sinking Fund.....		184,501 59
Total.....		$3,805,027 86

Name of Issue.	Rate per Annum.	When Payable.	Where Payable.
Five Million Loan...1890	6 per cent.	Jan., April, July and Oct...	Nat. Farm. and Plant. Bank.
Consolidated Loan...1890	6 "	" " " ...	" " "
City Hall Loan.....1884	6 "	" " " ...	" " "
" " 1900	6 "	" " " ...	" " "
" " 1902	6 "	" " " ...	" " "
Funding Loan.....1900	6 "	" " " ...	" " "
Consolidated Loan...1885	6 "	" " " ...	" " "
Valley R. R. Loan...1886	6 "	" " " ...	National Mechanics' Bank.
Park Imp. Loan.....1895	6 "	" " " ...	" "
Court House Loan...1860	5 "	" " " ...	" "
Public Park Loan...1890	6 "	March, June, Sept. and Dec	" "
Jones' Falls Loan...1900	6 "	Feb., May, Aug. and Nov...	" "
" " ...1900	5 "	" " " ...	" "
One Million Loan....1886	6 "	January and July.....	" "
W. Md. R. R. Loan...1902	6 "	" "	" "
Water Loan.....1916	5 "	May and November.....	" "
" " 1894	5 "	" "	" "
Funding Loan.....1916	5 "	" "	" "
Exempt Loan.....1893	6 "	March and September.	" "
Consolidated Loan...1893	6 "	" "	" "
Water Loan.....1894	6 "	May and November.....	City Register's Office.

GUARANTEES.

Name of Issue.	Rate per Annum.	When Payable.	Where Payable.
Western Maryland R. R. Company's Bonds.....	6 per cent.	January and July.....	National Mechanics' Bank.
Union R. R. Company's Bonds.....	6 "	" "	Franklin Bank.

ANNUAL REPORT

OF THE

CITY COMPTROLLER,

TO THE

MAYOR AND CITY COUNCIL

OF BALTIMORE,

For the Fiscal Year ending December 31, 1879.

REPORT.

City Comptroller's Office,

Baltimore, January 1st, 1880.

To the Honorable the Mayor and Members
of the First and Second Branches
of the City Council of Baltimore:

Gentlemen:

I have the honor of presenting herewith the report of the department of the City Comptroller for the year terminating with the 31st of December, 1879.

The following table is an exhibit of the aggregate receipts and disbursements from the 1st day of January, 1879, to the 31st day of December, 1879, both dates inclusive.

STATEMENT OF RECEIPTS.

From	the City Collector on account of the tax levy for 1879..	$2,401,933 23	
"	the City Collector on account of taxes in arrears...	1,360,470 46	
"	the City Collector interest on taxes in arrears.....	71,344 31	
"	the City Collector for opening, closing and widening streets and alleys.	78,205 43	
"	the City Collector for paving streets and alleys.....	23,952 35	
			$3,935,905 78
"	the Sheriff of Baltimore City, bawdy house fines for distribution to dispensaries.....		2,617 90
"	the State of Maryland for the City's proportion of Public School tax, and from the Secretary of the School Board for the use of books, &c.....		186,786 43
"	the Baltimore, Peabody Heights and Waverly Passenger Railroad, interest on deferred payments due to the Park Board.....		61 56
	Amount carried forward.....		$4,125,371 67

	Amount brought forward.....	$4,125,371 67
From	Marine Bank, rebate of interest on note paid before maturity.....	27 78
"	sale of ground and material in connection with opening streets.	11,378 02
"	ground rents due by sundry parties	1,946 75
"	wharfage by Harbor Masters	26,788 15
"	Auctioneers for State duties.....	11,541 73
"	the Commissioner of Health for sale of refuse.....	3,062 48
"	sale of stalls in markets.....	1,815 92
"	market rents and licenses.....	49,263 51
"	rent of public halls.....	1,671 00
"	licenses for wagons, carts, billiards dogs, &c	36,070 73
"	theatrical licenses.....	1,957 00
"	sale of certificates of health and sealing papers.....	1,389 90
"	sale of property owned by the City.....	10,072 99
"	Passenger Railway Companies and Park Board for Druid Hill and Patterson Parks.....	87,788 34
"	Park Board for Riverside Park . .	20 25
"	Passenger Railway Companies for Park Sinking Fund.....	12,210 57
"	sale of Jones' Falls improvement stock of 1900.....	143,952 25
"	the Sheriff, for the City's proportion of fines collected by him....	831 70
	Amount carried forward.....	$4,527,160 74

	Amount brought forward.....		$4,527,160 74
From	Magistrates, for fines for violation of City ordinances.....		925 50
"	the Baltimore and Ohio R. R. Co., interest on the $5,000,000 loan ..		300,000 00
"	the Commissioners of Finance, dividend on the B. & O. R. R. Co's stock.....		253,662 50
"	the Commissioners of Finance, six months' interest on the $1,000,000 loan.....		30,000 00
"	the Commissioners of Finance, interest on the guaranteed bonds of the Western Maryland R. R. Company		52,965 00
"	the City Commissioner for permits for vaults and areas.....	$1,713 95	
"	the City Commissioner for permits for opening sewers.....	427 60	
"	the City Commissioner for account of repairs of paved streets	395 73	
"	the City Commissioner for account of iron plates.....	75 13	
"	the City Commissioner for Chatsworth Run sewer	150 00	
	Amounts carried forward.	$2,762 41	$5,164,713 74

Amounts brought forward..	$2,762 41	$5,164,713 74
From the City Commissioner for Jones' Falls improvement.....	100 00	
" the City Commissioner on account of advertising.....	24 00	
		$2,886 41
" tax sales, for the redemption of property previously sold.....		8,721 47
" dividends from Turnpike Companies.....		936 46
" the Jail Visitors for Board of U. S. prisoners, hire of prisoners, &c..		3,770 44
" the sale of Funding Loan of 1916.		93,600 00
" the inspection of gas meters.....		3,224 40
" Trustees of Bayview Asylum for board of inmates, resident students, sale of refuse, &c.....		1,885 59
" Marine Hospital fees.....		9,950 87
" the City Librarian for certifying a copy of papers filed in his office.....		40
" sundry persons for injury to street lamps.....		95 95
" R. Montgomery, error in the payment of a bill, due by the City Council.....		10 00
" H. Mullen on account of transportation to Philadelphia.....		1 00
Amount carried forward.....		$5,289,796 73

Amount brought forward.....	$5,289,796 73
From the Water Board for rents.....	554,272 00
" the Harbor Board, over-draft on pay-rolls	82 50
" permits and advertising for erecting sheds, signs, &c.....	4,785 19
" B. V. Kelly, over payment on pay-roll	12
" the U. S. Government, for money advanced to build fortifications during the late war.....	62,498 80
" the sale of City Codes of 1879	87 00
" Sarah Ann Fowler's estate	1,401 30
" the Pound Master for the sale of dogs, &c.....	361 51
" the Fire Commissioners for the sale of equipments, refuse, &c....	1,263 12
" the sale of Water Loan of 1894.....	882,656 50
" temporary loans	631,500 00
Balance in hands of the City Register, January 1st, 1879.....	196,497 50
	$7,625,202 27

STATEMENT OF DISBURSEMENTS.

For cleaning and repairs of markets.....	$6,180 57
" expenses of Broadway and Cross street halls.....	109 83
Amount carried forward..... .	$6,290 40

Amount brought forward	$6,290 40
For general licenses, painting, advertising, &c	915 37
" salaries of city officers	64,000 21
" State and City elections	7,616 77
" expenses of the Supervisors of elections	1,974 69
" expenses of the Court House and Record Office	4,298 13
" expenses of Old Masonic Hall	2,988 89
" salaries of lamplighters	42,432 00
" ground rents due by the city	1,583 04
" commissions and incidental expenses of the Harbor Masters	7,254 60
" salaries and other expenses of the Public Schools	599,997 97
" incidental expenses of the Commissioners for Opening Streets	102 84
" expenses of the sale of city property	469 55
" insurance on Bayview Asylum	855 00
" Druid Hill and Patterson Parks	89,538 53
" Riverside Park	11,834 43
" account of public squares	16,255 22
" the City Commissioner's Department	135,478 02
" the improvement of Jones' Falls	305,660 31
" the expenses of the Courts	152,075 09
" the cost of removed cases	3,546 67
" the cost of judgment and suits	4,534 09
" Magistrates' salaries and fines remitted	13,115 00
Amount carried forward	$1,472,816 82

Amount brought forward	$1,472,816	82
For Coroners' salaries and three post-mortems	2,475	00
" expense of registration of voters	12,000	00
" expenses of the Jail	44,542	12
" printing laws of Maryland, from 1729 to 1830	1,114	00
" City Poor	159,497	21
" amount of sinking funds paid to the Commissioners of Finance	20,946	39
" 100 copies of Klemm's map of Baltimore	35	00
" interest on the stock debt	1,344,527	47
" interest on loans, &c., and discount on taxes	140,557	69
" interest on the Western Maryland R. R. Co's bonds	53,520	00
" the purchase of property to secure taxes	17,217	28
" salaries and incidental expenses of the City Collector's Office and Appeal Tax Court	42,635	78
" Harbor Board	140,313	40
" Inspector of Buildings Department	56,762	12
" advertising for the erection of sheds, signs, &c	1,010	12
" repairs of engine houses	7,041	59
" codifying ordinances and statutes	1,400	00
" Ice-boat Maryland	22,000	00
" State tax on city loans	8,024	62
Amount carried forward	$3,548,436	61

Amount brought forward.....	$3,548,436 61
For ringing mechanics' bells.....	200 00
" the Health Department.....	246,392 50
" the Superintendent of the City Hall	13,630 78
" portrait of Ex-Mayor, George P. Kane.....	300 00
" incidental expenses of the Mayor....	1,375 80
" keys to public halls for the General Superintendent of Lamps.....	3 00
" general expense account.....	1,470 53
" General Superintendent of Lamps Department.....	131,338 53
" salaries and incidental expenses of the City Council.....	50,006 98
" public printing.....	2,577 36
" carrying poor to homes.....	747 14
" transportation to the House of Correction.....	208 60
" the Water Board's expenses.....	644,674 90
" the Permanent Water Supply.....	838,387 26
" temporary loans.....	812,500 00
" special appropriations.....	7,605 36
" printing city code of 1879.....	1,720 00
" ground rent, &c., on house received from Sarah A. Fowler's estate.....	130 00
" account of dog pound.....	2,728 03
" account of the condemnation of Federal Hill.....	67,227 22
" the Fire Department.....	155,993 63
" the Police Department.....	584,719 01
Amount carried forward.....	$7,112,374 14

Amount brought forward	$7,112,374 14
For taxes refunded by the Appeal Tax Court	9,977 00
" damages and incidental expenses for opening streets	146,329 16
" paving streets	21,730 55
" the City Librarian's Department	6,081 37
Balance in hands of the City Register, December 31st, 1879	328,710 05
	$7,625,202 27

From the foregoing it will appear that the receipt column aggregates	$7,625,202 27
Deducting from this amount, however, the cash balance in the treasury on the 31st of December, 1878, to wit	196,497 50
And it shows the total receipts to have been	$7,428,704 77
In the disbursement column the aggregate appears as	$7,625,202 27
Deduct from it the cash balance in the treasury on the 31st of December, 1879, as appears in this column, to wit	$328,710 05
And it shows the total disbursements to have been	$7,296,492 22

The receipts, therefore, during the year 1879, exceeded the disbursements in the sum of $132,212.55.

The foregoing debit and credit columns embrace, as stated, the aggregate *receipts* from all sources, and the aggregate *disbursements* for all purposes. The first largely exceeds the *revenue proper*, and the other very materially exceeds the *expenses proper*. If those aggregates of "*receipts*" and "*disbursements*" should be taken as *revenue* and *expenses*, the financial department of the city, in the year 1878, would exhibit an astonishing amount of revenue and expenses as compared with the year which has just expired. The aggregate *receipts* in 1878, as shown by the Comptroller's report for that year, were $11,077,398.43, and the *disbursements* $11,184,-577.47, exhibiting a difference of nearly four million dollars between the year 1878 and the year 1879. While, therefore, the expenses of 1879 were much less than those of 1878, there was no such marked difference in either revenue or expenses as appears in the tabular statements of "receipts" and "disbursements" of those years.

A single item will serve to illustrate the causes which operate to swell the aggregates in the columns of debit and credit, or "receipts" and "disbursements," as follows: In 1878 the receipts from loans of money were $3,070,863.36, while in 1879, they were but $631,500.00. The payments on account of loans in 1878, were $4,239,363.36, while in 1879, they were but $812,500.00. No portion of such loans is regarded as *revenue proper*, and the interest paid on such is the only item properly chargeable to expenses.

Loans are generally obtained at short dates—say, at sixty and ninety days, and the frequent renewals of the same, as they from time to time mature, swell the

aggregate of that item in the credit and debit columns. In these accounts there are many items, some of them of large amounts, that cannot properly be classed among either revenue or expenses. The tables constitute an exhibit of the entire monetary operations of the year.

Upon a close examination of the accounts, the intelligent reader will readily perceive the distinction which I have endeavored to illustrate in the items that make up the same.

CURRENT FINANCIAL CONDITION OF THE CITY ON THE 31ST OF DECEMBER, 1879.

Dr.		
To balance due the Water Board	$293,839	44
" to the Park Commission	2,429	85
" to the Jones' Falls Loan	5,257	24
" to Permanent Water Supply Loan	123,553	80
" on account of Temporary Loans.	200,000	00
Total	$625,080	33
Cr.		
By cash in the treasury	328,710	05
Deficiency December 31st, 1879	$296,370	28

The deficiency or floating debt on the 31st of December, 1878, as appears by the Comptroller's report of that year, was $622,649.18; deducting therefrom the deficiency on the 31st of December, 1879, to wit: $296,370.28, and it demonstrates that the deficiency of 1878 was reduced $326,278.90 in the year which has just closed.

In the matter of indebtedness, at least, the city is in a certainly much better condition than it has been for several years. If the estimates of the collection of taxes in the year 1879 had been realized, the cash in the treasury at the close of the year would have nearly equaled the deficiency that appears above. The Committee of Ways and Means estimated that there would be collected in the year 1879 out of the tax levy of that year.....$2,520,000 00
And out of the taxes in arrears and interest thereon..... 1,650,000 00

$4,170,000 00

The collections on account of the general levy, (which does not embrace the sum of $23,952.35 returned by the City Collector on account of paving streets and alleys, which is a special tax and not embraced in the general levy,) were..... $2,480,138 66
Collections on account of taxes in arrears and interest thereon, were..... 1,431,814 77

Total.....$3,911,953 43

Deduct the above actual collections from the sum estimated, and it shows a deficiency in collections of $258,046.57.

It will thus be seen, that the current deficiency of $296,370.28, as above stated, was not the result of increased expenditures. The balance against the city is not in reality a floating debt, because the means for its cancellation are in the hands of the tax gatherer.

It is in the highest degree creditable to the intelligence of the Legislative Department of the City Gov-

ernment, to be enabled to say that for the first time in the history of the City Council, for many years, it made no appropriations of money whatever, to be used in 1879, that were not provided for in the tax levy.

SALES OF CITY PROPERTY.

In accordance with resolutions of the Mayor and City Council, I disposed of the following property of the city in the year 1879 at the prices designated, to wit:

1879, January 8. Leasehold lot at the northeast corner of Fayette and Holliday streets, subject to the terms of the lease to the city, for $6,400.

1879, June 13. Lot in fee at the southeast corner of Bath and Holliday streets for the sum of $1350.

1879, September 24. Leasehold and improvements on Raborg street, west of Fremont street, known as No. 7 colored school house, subject to the terms of the lease to the city, for the sum of $175.

1879, September 24. Leasehold and improvements at the southwest corner of Front and Centre streets for the sum of $1,375.

The item of receipts on the above account appears in *the first table of this report.*

For information in detail connected financially with the operations of the Department of the City Comptroller, I respectfully invite your attention to the subjoined tables:

Table A is a statement of the amount charged and credited to the City Register.

Table B shows the amount of taxes collected during the year, and the amount charged to the City Collector for taxes in arrears.

Table C is a statement of the receipts and disbursements of markets, sale of stalls in markets, general licenses, theatricals, city seals, permits for sheds, signs, &c., vaults and areas, inspecting gas meters, Sarah A. Fowler's estate, city property, auction duties, public halls and wharfage accounts.

Table D is a statement of the several Courts, Supreme Bench, removed cases, fines, judgments and suits, magistrates, coroners and post mortems, registration and Baltimore City Jail.

Table E is an exhibit of the receipts from taxes and other sources, and payment on account of interest on the stock debt, the sale of Jones' Falls stock of 1900, and the Funding Loan of 1916, Permanent Water Supply, Water Board, Loans, Western Maryland Railroad, the Sinking Funds, and interest.

Table F is a statement of the receipts and disbursements on account of the parks and squares.

Table G is a statement of the receipts and disbursements on account of the Health Department, Harbor Board, City Collector, City Poor, Tax Sales, Police Department, Taxes Refunded, Public Printing, Fire Department, City Council, Sale of City Property, Elections, Supervisors of Elections, Public Schools and Special appropriations.

Table H is a statement of the amounts appropriated and expended by the City Commissioner, repairs of engine houses, Inspector of Buildings, General Superintendent of Lamps, condemnation of Federal Hill, and also the amount appropriated and expended for sundry accounts.

Table I shows the amounts received and paid for opening, closing and widening, and for paving streets, alleys, &c.

I have the honor to be,

Very respectfully,

Your obedient servant,

JOSHUA VANSANT,
Comptroller of the City.

APPENDIX.

TABLE A.

DR. JOHN A. ROBB, *City Register, in account with*

1879.			
January	1	To balance	$196,497 50
"	31	To cash	672,341 24
February	28	"	731,268 67
March	31	"	420,406 99
April	30	"	240,811 34
May	31	"	405,649 17
June	30	"	1,808,210 57
July	31	"	354,484 55
August	31	"	293,912 35
September	30	"	169,676 94
October	31	"	540,012 30
November	30	"	1,054,493 86
December	31	"	737,436 79
			$7,625,202 27

TABLE A.

the Mayor and City Council of Baltimore. CR.

1879.				
January	31	By Comptroller's warrants		$809,474 00
February	28	" "		433,191 29
March	31	" "		265,845 07
April	30	" "		549,836 76
May	31	" "		1,010,433 72
June	30	" "		446,262 56
July	31	" "		726,143 25
August	31	" "		562,206 70
September	30	" "		671,569 85
October	31	" "		403,148 68
November	30	" "		781,485 06
December	31	" "		636,895 28
		By balance.....		328,710 05
				$7,625,202 27

TABLE B.

Collection of Taxes, Opening of Streets, &c., made by the City Collector, for the year ending December 31st, 1879.

	1874	1875	1876	1877	1878	1879	Total
Internal Improvements	$41 16	$993 58	$9,151 24	$9,224 14			$19,410 12
State Police	94 67	3,477 55	27,453 71	28,990 28	$118,231 66	$349,592 28	527,840 15
Certain Expenses	32 93	1,324 72	7,843 93	14,495 18	45,473 68	121,597 36	190,767 80
Criminal Court	12 34	496 81	3,921 97				4,431 12
Public Schools	86 43	3,477 55	24,839 05	25,037 05	77 305 31	273,593 98	404,339 37
City Poor	24 70	828 00	6,536 58	7,906 44	31,831 60	75,998 33	123,125 65
Direct Tax	284 00	12,419 82	112,429 45	93,559 47	304,673 89	1,048,776 86	1,572,143 49
Miscellaneous Stocks	119 37	4,471 15	35,297 58	39,532 16	236,463 30	349,592 28	665,475 84
Opening Streets	12 34	1,490 36	3,921 97	7,906 44	50,021 08	60,798 68	124,150 87
City Hall Sinking Fund	12 34	331 19	2,614 63	2,635 45			5,593 61
Funded Debt of 1868	4 11	165 56	1,307 30	1,317 68			2,794 65
Jones' Falls Sinking Fund	8 22	165 56					173 78
Funded Debt of 1874	8 22	165 56					173 78
	740 83	29,807 41	235,317 41	230,604 29	864,000 52	2,279,949 77	3,640,420 23
Interest	193 67	5,813 34	35,042 48	20,429 44	9,865 38		71,344 31
Discount						121,983 46	121,983 46
	$934 50	35,620 75	270,359 89	251,033 73	873,865 90	2,401,933 23	3,833,748 00
Opening, Closing and Widening Streets, &c.							78,205 43
Paving Streets and Alleys							23,952 35
							$3,935,905 78

TABLE B—Concluded.

Amount charged against the City Collector Dec. 31st, 1879.

YEAR.	LEVY.	BASIS OF TAXATION.	AMOUNT.
1876	1.80	$ 4,685,908 00	$ 84,346 34
1877	1.75	25,760,323 00	450,806 64
1878	1.90	39,534,224 00	751,150 25
1879	1.50	83,914,298 00	1,258,714 47
			$2,545,017 70

TABLE C.

Hanover Market—George A. Albaugh, Clerk.

	Dr.	Cr.
Butcher stall rents		$1,053 00
Fish stall rents—permanent		72 00
" season		169 00
Permanent stall rents		286 00
Eave stall rents		158 00
Street stall rents		443 00
		$2,181 00
Per diem rents	$1,227 49	
Licenses	1,335 00	
		2,562 49
		$4,743 49

TABLE C—Continued.

Belair Market—Joseph H. Wright, Clerk.

	DR.	CR.
Butcher stall rents		$4,160 00
Fish stall rents		163 00
Permanent stall rents		428 00
Eave stall rents		216 00
Street eave stall rents		205 00
Gutter stall rents		540 00
Movable stall rents		515 00
		$6,227 00
Per diem rents	$1,800 80	
Licenses	240 00	
Confiscated butter	4 75	
		2,045 55
		$8,272 55

TABLE C—Continued.

Cross Street Market—James Graham, Clerk.

	Dr.	Cr.
Butcher stall rents		$602 50
Eave stall rents		350 00
Permanent stall rents		350 00
Fish stall rents		80 00
Street stall rents		150 00
Institute stall rents		40 00
		$1,542 50
Per diem rents	$971 44	
Licenses	55 00	
		1,026 44
		$2,568 94

TABLE C—Continued.

Lexington Market—James C. Randall, Clerk.

	Dr.	Cr.
Butcher stall rents		$1,975 00
Fish stall rents		92 00
Permanent stall rents		880 00
Eave stall rents		440 00
Movable stall rents		84 00
Street eave stall rents		370 00
Space stall rents		210 00
Street stall rents		1,357 00
		$5,408 00
Per diem rents	$2,410 50	
Licenses	3,415 00	
Confiscated butter	8 25	
		$5,833 75
		$11,241 75

TABLE C—Continued.

Hollins Market—Jno. H. Barnet, Clerk.

	DR.	CR.
Butcher stall rents		$697 00
Fish stall rents—annual		30 00
" season		33 00
Permanent stall rents		225 00
Eave stall rents		250 00
Street stall rents		510 00
Nine month stall rents		21 00
Space stall rents		205 00
Movable stall rents		150 00
		$2,121 00
Per diem rents		1,438 10
		$3,559 10

TABLE C—Continued.

Centre Market—Daniel Murray, Clerk.

	DR.	CR.
Butcher stall rents		$2,411 00
Permanent stall rents		1,224 00
Eave stall rents		931 00
Street eave stall rents		197 00
Gutter stall rents		191 00
Movable stall rents		803 00
Gutter fish stall rents		128 00
Permanent fish stall rents		180 00
Eave fish stall rents		104 00
		$6,169 00
Per diem rents		2,166 18
		$8,335 18

TABLE C—Continued.

Richmond Market—David H. Lucchesi, Clerk.

	DR.	CR.
Butcher stall rents		$1,081 47
Fish stall rents		190 00
Permanent stall rents		332 25
Eave stall rents		283 50
Vegetable stall rents		603 75
Aisle stall rents		125 00
Movable stall rents		108 00
Street eave stall rents		25 00
		$2,748 97
Per diem rents		1,212 45
		$3,961 42

TABLE C—Continued.

Fell's Point Market—Charles Eagleston, Clerk.

	DR.	CR.
Butcher stall rents		$1,420 00
Permanent stall rents		404 00
Eave stall rents		374 00
Vegetable stall rents		229 00
Street eave stall rents		5 00
Fish stall rents		60 00
Street stall rents		180 00
Movable stall rents		60 00
		$2,732 00
Per diem rents	$1,519 62	
Licenses	1,740 00	
Confiscated butter	11 96	
		3,271 58
		$6,003 58

Lafayette Market—Thomas Briddell, Clerk.

Received from rent of stalls	$577 50

TABLE C—Continued.

Summary of Markets.

	DR.	CR.
Hanover Market		$4,743 49
Belair "		8,272 55
Cross Street "		2,568 94
Lexington "		11,241 75
Hollins "		3,559 10
Centre "		8,335 18
Richmond "		3,961 42
Fell's Point "		6,003 58
Lafayette "		577 50
		$49,263 51
EXPENSES OF CLEANING, REPAIRS, &C.		
Hanover Market	$ 742 34	
Belair "	591 10	
Cross Street "	1,259 45	
Lexington "	747 11	
Hollins "	346 80	
Centre "	856 43	
Richmond "	537 65	
Fell's Point "	700 15	
Lafayette "	399 54	
	$6,180 57	
Less appropriations per ordinance No. 51, and resolutions Nos. 11, 50, 77, 111, 146, 160, 171, 237 and 243 for hose, repairs, &c.	1,655 11	
		4,525 46
Net revenue		$44,738 05

TABLE C—Continued.

Amounts received from sale of Stalls in Markets.

	DR.	CR.
Lafayette Market.....		$111 84
Cross Street "		938 80
Richmond "		167 20
Lexington "		598 08
Balance December 31st, 1879.....	$1,815 92	
	$1,815 92	$1,815 92

General Licenses.

	DR.	CR.
Appropriation Ordinance No. 51, 1879.....		$1,000 00
Received from licenses for wagons, carts, drays, billiards, dogs, &c.		36,070 73
Paid expenses of painting, advertising, &c.....	$ 915 37	
Balance December 31st, 1879.....	36,155 36	
	$37,070 73	$37,070 73

TABLE C—Continued.

Theatricals.

	DR.	CR.
By amount received from licenses for balls, concerts, theatrical entertainments, &c		$1,957 00
To balance December 31st, 1879.....	$1,957 00	
	$1,957 00	$1,957 00

City Seals.

	DR.	CR.
By amount received from sale of bills of health and sealing papers....		$1,389 90
To balance December 31st, 1879.....	$1,389 90	
	$1,389 90	$1,389 90

TABLE C—Continued.

Permits for Sheds, Signs, &c.

	DR.	CR.
By amount received for permits for the erection of sheds, signs, steam boilers, &c.....		$2,985 19
By amount received for advertising		1,800 00
To amount paid for advertising.....	$1,010 12	
To balance December 31st, 1879.....	3,775 07	
	$4,785 19	$4,785 19

Vaults and Areas.

	DR.	CR.
By amount received for permits for constructing vaults and areas...		$1,713 95
To balance December 31st, 1879.....	$1,713 95	
	$1,713 95	$1,713 95

TABLE C—Continued.

Inspecting Gas Meters.

	DR.	CR.
By amount received from the General Superintendent of Lamps and Inspector and Sealer of Gas Meters.....		$3,224 40
To amount paid for keys to the public halls for the use of the General Superintendent of Lamps, &c.....	$ 3 90	
To balance December 31st, 1879.....	3,220 50	
	$3,224 40	$3,224 40

Sarah Ann Fowler's Estate.

	DR.	CR.
By amount received from the Board of Public School Commissioners		$1,296 88
By amount received for rent of house No. 131 W. Biddle street.....		104 42
To amount paid for executing papers	$ 10 00	
To amount paid for ground rent on house No. 131 W. Biddle street	120 00	
To balance December 31st, 1879.....	1,271 30	
	$1,401 30	$1,401 30

TABLE C—Continued.

City Property.

	DR.	CR.
By appropriation ordinance No. 51, 1879.		$2,000 00
By amount of ground rent received from sundry parties.....		1,946 75
To amount of ground rents paid to sundry parties.....	$1,583 04	
To balance December 31st, 1879	2,363 71	
	$3,946 75	$3,946 75

Auction Duties.

	DR.	CR.
By amount received from auctioneers, State tax on sales.....		$11,541 73
To balance December 31st, 1879.....	$11,541 73	
	$11,541 73	$11,541 73

TABLE C—Continued.

Public Halls.

	DR.	CR.
Cross Street Hall—		
Received for rent		$244 00
Paid expense of cleaning	$45 00	
Hollins Hall—		
Received for rent		48 00
Broadway Hall—		
Appropriation ordinance No. 51, 1879		100 00
Received for rent		1,379 00
Paid expense of cleaning	64 83	
Balance, December 31st, 1879	1,661 17	
	$1,771 00	$1,771 00

TABLE C—Concluded.

Collection of Wharfage from January 1st, 1879, to December 31st, 1879.

DATE.	1st District.	2d District.	3d District.	4th District.	5th District.	Aggregate.
January	$75 00	$241 66	$585 28	$414 91	$619 11	$1,935 96
February	11 25	88 55	413 62	364 92	435 37	1,313 71
March	54 95	97 60	372 47	437 67	717 28	1,679 97
April	18 12	263 02	504 47	370 16	1,034 32	2,190 09
May	18 75	283 54	432 22	327 16	1,520 84	2,582 51
June	60 00	292 57	403 94	344 66	1,312 83	2,414 00
July	18 75	264 38	501 67	345 66	1,227 09	2,357 55
August	10 00	291 02	475 78	363 86	1,050 11	2,190 77
September	50 00	361 92	646 79	541 67	1,136 18	2,736 56
October	20 25	373 97	671 96	375 66	1,302 12	2,743 96
November	25 75	346 51	577 90	411 16	1,104 63	2,465 95
December	65 25	249 98	448 97	417 16	995 76	2,177 12
	$428 07	$3,154 72	$6,035 07	4,714 65	$12,455 64	$26,788 15

Total collections from January 1st, to December 31st, 1879		$26,788 15
Appropriations, Resolution No. 115 for $150 and No. 249 for $80, in favor of Alex. Bennett		230 00
		$27,018 15
Less expense for commissions and incidenta's, and for fitting up anchorage grounds and salary of boatmen	$7,024 60	
Less amount paid to Alex. Bennett	230 00	
		7,254 60
Net revenue		$19,763 55

TABLE D.

Superior Court.

	DR.	CR.
By appropriation, Ordinance No. 59, 1879		$19,000 00
By appropriation, Ordinance No. 51, 1879, for repairs to books, furniture, &c		534 85
To amount paid Clerk	$1,424 55	
" " Crier	1,500 00	
" " Bailiffs	6,000 00	
" " Drawing Jurors	100 00	
" " Jurors	8,562 50	
" " Sheriff	102 80	
" " Janitor	360 00	
" " for incidentals	4 00	
" " for repairing books, furniture, &c	534 85	
To balance December 31st, 1879	946 15	
	$19,534 85	$19,534 85

TABLE D—Continued.

Criminal Court.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$70,000 00
By appropriation, Ordinance No. 84, 1879		4,500 00
By appropriation, Resolution No. 167, 1879, for ventilating Court room		629 20
To amount paid State's Attorney	$12,228 80	
" " Clerk	17,377 00	
" " Sheriff	10,127 45	
" " Bailiffs	9,500 00	
" " Drawing Jurors	180 00	
" " Incidentals	361 00	
" " Board of Jurors	389 00	
" " Grand and Petit Jurors and Witnesses	22,842 15	
" " Interpreter	694 42	
" " for ventilators	629 20	
" " for stationery	110 00	
To balance December 31st, 1879	699 18	
	$75,129 20	$75,129 20
Amount received from the City Collector on account of the tax levy	$4,431 13	

TABLE D—Continued.

Court Common Pleas.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$20,000 00
By appropriation, Ordinance No. 84, 1879		1,500 00
To amount paid Crier	$1,500 00	
" " Bailiffs	5,000 00	
" " Drawing Jurors	180 00	
" " Clerk	2,203 55	
" " Jurors	11,010 00	
" " Sheriff	375 80	
" " Watchman	1,000 01	
" " Witness	1 00	
" " Stationery	192 20	
To balance December 31st, 1879	37 44	
	$21,500 00	$21,500 00

TABLE D—Continued.

Baltimore City Court.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$18,000 00
To amount paid Crier	$108 56	
" " Bailiffs	6,000 00	
" " Drawing Jurors	180 00	
" " Jurors	8,265 50	
" " Clerk	2,731 35	
" " Stationery	461 39	
" " Sheriff	253 20	
	$18,000 00	$18,000 00

TABLE D—Continued.

Circuit Court.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$10,000 00
To amount paid Bailiffs and Messenger	$7,500 00	
To amount paid Watchman	900 00	
" " Drawing Jurors	200 00	
" " Stationery	392 50	
" " Clerk	170 75	
To balance December 31st, 1879	836 75	
	$10,000 00	$10,000 00

Orphans' Court.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$8,000 00
To amount paid Judges	$5,616 00	
" " Bailiff	1,248 00	
" " Janitor	699 96	
" " Incidentals	133 25	
" " Stationery	74 35	
To balance December 31st, 1879	228 44	
	$8,000 00	$8,000 00

TABLE D—Continued.

Supreme Bench.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$2,650 00
To amount paid Judges	$2,500 00	
To amount paid City Collector for furnishing list of taxpayers	150 00	
	$2,650 00	$2,650 00

Removed Cases.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$5,000 00
To amount paid to sundry parties	$3,546 67	
To balance December 31st, 1879	1,453 33	
	$5,000 00	$5,000 00

TABLE D.—Continued.

Fines.

	DR.	CR.
By amount received from Philip M. Snowden, Sheriff, for the city's portion of fines imposed by the Criminal Court.....		$831 70
To balance, December 31st, 1879...	$831 70	
	$831 70	$831 70

Judgments and Suits.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879.....		$5,000 00
To amount paid to sundry parties..	$4,534 09	
To balance, December 31st, 1879...	465 91	
	$5,000 00	$5,000 00

TABLE D.—Continued.

Magistrates.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$13,500 00
By amount of city's proportion of fines		925 50
To amount paid for salaries	$12,600 00	
To amount paid for substitutes	480 00	
To amount paid for fines remitted	35 00	
To balance, December 31st, 1879.	1,310 50	
	$14,425 50	$14,425 50

Coroners and Post Mortems.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$2,550 00
To amount paid for salaries	$2,400 00	
To amount paid for three post-mortem examinations	75 00	
To balance, December 31st, 1879.	75 00	
	$2,550 00	$2,550 00

TABLE D.—Concluded.

Registration.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$12,000 00
To amount paid for salaries of Registers and Counselor	$10,157 54	
To amount paid for advertising, &c	1,842 46	
	$12,000 00	$12,000 00

Baltimore City Jail.

	DR.	CR.
By appropriation, Ordinance No 51, 1879		$45,000 00
By amount received for Board of U. S. prisoners, hire of prisoners, sale of refuse, &c		$3,770 44
To amount paid on the warrants of the Board of Visitors	$44,542 12	
To balance, December 31st, 1879.	4,228 32	
	$48,770 44	$48,770 44

TABLE E.

Receipts from taxation and other sources, and payments on account of interest on the Stock Debt.

	DR.	CR.
Received from the City Collector on account of the tax levy for internal improvements		$19,410 12
Received from the City Collector on account of the tax levy for miscellaneous stocks		665,475 84
Received from the Baltimore and Ohio Railroad Company interest on the $5,000,000 loan		300,000 00
Received from the Commissioners of Finance, dividend on 32,500 shares B. & O. R. R. stock		253,662 50
Received from the Commissioners of Finance six months' interest on the $1,000,000 loan of 1886		30,000 00
Paid interest on the Stock Debt	$1,344,527 47	
Balance, December 31st, 1879		75,979 01
	$1,344,527 47	$1,344,527 47

TABLE E—Continued.

Jones' Falls Stock.

	DR.	CR.
Balance January 1st, 1879.....		$768,820 83
Amount received, proceeds of the sale of 6 per cent. stock....		49,166 75
Amount received, proceeds of the sale of 5 per cent. stock....		94,785 50
Balance December 31st, 1879.....	$912,773 08	
	$912,773 08	$912,773 08

Funding Loan of 1916.

	DR.	CR.
Balance January 1st, 1879 ...		$946,496 67
Amount received, proceeds of the sale of stock.....		93,600 00
Balance December 31st, 1879.	$1,040,096 67	
	$1,040,096 67	$1,040,096 67

TABLE E—Continued.

Permanent Water Supply.

	DR.	CR.
By balance January 1st, 1879.		$79,284 56
By amount received from the proceeds of the sale of stock.....		882,656 50
To amount paid on the warrants of the Water Board..	$838,387 26	
To balance December 31st, 1879	123,553 80	
	$961,941 06	$961,941 06

Water Board.

	DR.	CR.
By balance January 1st, 1879.		$384,242 34
By amount received for water rents.....		554,272 00
To amount paid on warrants of the Water Board, for interest on the Water Loan, salaries, &c.....	$644,674 90	
To balance December 31st, 1879.....	293,839 44	
	$938,514 34	$938,514 34

TABLE E—Continued.

Loans.

	DR.	CR.
By balance January 1st, 1879.		$381,000 00
By amount borrowed from sundry parties		631,500 00
To amount paid to sundry parties	$812,500 00	
To balance December 31st, 1879	200,000 00	
	$1,012,500 00	$1,012,500 00

Western Maryland Railroad Company.

	DR.	CR.
To balance January 1st, 1879.	$1,080,372 57	
To amount paid by the city for interest on the bonds guaranteed by the Mayor and City Council of Baltimore	53,520 00	
By amount received from the Commissioners of Finance for interest paid on the guaranteed bonds, and refunded from the sinking fund, as per Ordinance No. 33, approved April 17th, 1879		$52,965 00
By balance December 31st, 1879		1,080,927 57
	$1,133,892 57	$1,133,892 57

TABLE E—Continued.

Receipts on account of the Sinking Fund.

	DR.	CR.
By amount received from City Passenger Railway Companies for Park Sinking Fund, as follows:		
Baltimore City Passenger Railway Company		$7,062 86
Citizens' Passenger Railway Company		3,461 55
York Road Passenger Railway Company		272 01
Baltimore, Peabody Heights and Waverly Passenger Railroad		1,414 15
By amount from the City Collector:		
Jones' Falls Sinking Fund		173 78
City Hall Sinking Fund		5,593 61
Funded debt, 1868		2,794 65
Funded debt, 1874		173 78
To amount paid Commissioners of Finance	$20,946 39	
	$20,946 39	$20,946 39

TABLE E—Concluded.

General Interest.

	DR.	CR.
By appropriation Ordinance No. 51, 1879		$140,000 00
By amount received from the City Collector for interest on arrearages of taxes		71,344 31
By amount received from the Baltimore, Peabody Heights and Waverly Passenger Railroad, interest on deferred payments due the Park Board		61 56
By amount received from the Marine Bank, rebate of interest on note paid before maturity		27 78
To amount of discount on taxes	$121,983 46	
To amount paid for interest on loans, and on accounts due by the Mayor and City Council	18,574 23	
To balance, December 31, 1879.	70,875 96	
	$211,433 65	$211,433 65

TABLE F.

Druid Hill and Patterson Parks.

	DR.	CR.
By balance, January 1st, 1879. ..		$4,180 04
By amount received from Passenger Railway Companies, as follows:		
Baltimore City Passenger Railway Company.....		61,585 51
Citizens' Passenger Railway Company.....		13,846 25
York Road Railway Company...		1,088 10
Baltimore, Peabody Heights and Waverly Passenger Railroad...		5,656 64
By amount received from the Park Board on account of Druid Hill Park..... ...		5,242 09
By amount received from the Park Board on account of Patterson Park...		369 75
To amount paid on the warrants of the Park Board on account of Druid Hill Park.	$44,830 14	
To amount paid on the warrants of the Park Board on account of Patterson Park.....	11,374 43	
To interest paid on the stock debt.....	33,333 96	
To balance, December 31st, 1879.	2,429 85	
	$91,968 38	$91,968 38

TABLE F—Continued.

Riverside Park.

	DR.	CR.
By appropriation Ordinance No. 51, 1879		$8,400 00
By appropriation Ordinance No. 51, 1879, for rent		3,770 62
By amount received from the Park Board		20 25
To amount paid on the warrants of the Park Board	$8,063 81	
To amount paid for rent	3,770 62	
To balance, December 31st, 1879	356 44	
	$12,190 87	$12,190 87

TABLE F—Concluded.

Expenditures and appropriations on account of Public Squares.

	DR.	CR.
Harlem Square	$2,048 73	$2,050 00
Mount Vernon Squares	700 00	700 00
Eutaw Squares	1,498 79	1,500 00
Broadway Squares	1,599 86	1,600 00
Madison Square	1,798 63	1,800 00
Lafayette Square	1,147 99	1,200 00
Franklin Square	880 86	1,000 00
Jackson Square	732 12	850 00
Park Place Square	1,000 00	1,000 00
Union Square	949 69	1,000 00
Perkins' Spring	3,051 13	3,052 00
Eastern Spring	747 42	1,000 00
Baker Circle	100 00	100 00
Balance, December 31st, 1879	596 78	
	$16,852 00	$16,852 00

TABLE G.

Health.

By appropriations, Ordinance No. 51, 1879:

	DR.	CR.
For General Health account		$33,025 00
For cleaning streets and garbage		193,500 00
For nuisances and sewers		6,500 00
For Marine Hospital		15,000 00
By amount received from Marine Hospital fees		9,950 87
By amount received from sale of refuse		3,062 48
By amount received from B.V. Kelly, error in pay-roll		12
By appropriation, Ordinance No. 53, 1879, for post mortem examinations		300 00
To amount paid on account of general health, salaries, &c	$33,022 45	
To amount paid for cleaning streets and removing garbage	192,061 21	
To amount paid for removal of nuisances and cleaning sewers	6,191 83	
To amount paid on warrants of the Health Department for account of the Marine Hospital	15,042 01	
To amount paid for post mortem examinations	75 00	
To balance December 31st, 1879	14,945 97	
	$261,338 47	$261,338 47

TABLE G—Continued.

Harbor Board.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$85,000 00
By amount received for over-draft on pay-rolls		82 50
To amount transferred to the credit of the expense account of ice-boat F. C. Latrobe, as per Resolution No. 233, approved October 9, 1879.	$3,000 00	
To amount paid on the warrants of the Harbor Board for dredging, salaries, &c	74,887 24	
To balance December 31st, 1879	7,195 26	
	$85,082 50	$85,082 50

Dredging Middle Branch of Patapsco River.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$15,000 00
To amount paid on the warrants of the Harbor Board	$12,184 81	
To balance December 31st, 1879	2,815 19	
	$15,000 00	$15,000 00

TABLE G—Continued.

Ice-Boat F. C. Latrobe.—(Expense Account).

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$7,000 00
By amount transferred from the appropriation for the Harbor Board account, as per Resolution No. 233, approved October 9th, 1879		3,000 00
To amount paid on the warrants of the Harbor Board	$9,608 52	
To balance December 31st, 1879	391 48	
	$10,000 00	$10,000 00

Building Ice-Boat F. C. Latrobe.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879 (Balance of appropriation of $140,000 as per Ordinance No. 33, approved May 5th, 1877).		$39,002 65
To amount paid on the warrants of the Harbor Board	$39,002 65	
	$39,002 65	$39,002 65

TABLE G—Continued.

Repairs of Wharves.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879, for repairs during 1879.....		$4,203 93
By appropriation, Ordinance No. 51, 1879, to pay deficiency bills of 1878.		796 07
To amount paid on the warrants of the Harbor Board.....	$4,330 18	
To balance December 31st, 1879...	669 82	
	$5,000 00	$5,000 00

City Collector.

	DR.	CR.
By appropriation, Ordinance No. 18, 1879.....		$40,000 00
By appropriation, Ordinance No. 51, 1879.....		2,700 00
To amount paid for salaries and incidental expenses of the City Collector's office and Appeal Tax Court.....	$42,635 78	
To balance December 31st, 1879...	64 22	
	$42,700 00	$42,700 00

TABLE G—Continued.

City Poor.

	DR.	CR.
By amount received from the City Collector on account of the tax levy..		$123,125 65
By amount received from the Sheriff for the use of the Dispensaries.....		$2,617 90
Paid to Dispensaries.....	$2,617 90	
By appropriation, Ordinance No. 51, 1879, for Bayview Asylum.		55,000 00
By amount received from board, of inmates and resident students, sale of refuse, &c		1,885 59
Paid warrants of the Trustees of Bayview Asylum.....	54,926 91	
By appropriation, Ordinance No. 51, 1879, for House of Refuge.		20,000 00
Paid to House of Rufuge.....	17,375 87	
By appropriation, Ordinance No. 51, 1879, for House of Reformation and Instruction for Colored children.		15,000 00
Paid to House of Reformation and Instruction for Colored children.....	15,000 00	
Amounts carried forward...	$89,920 68	$217,629 14

TABLE G—Continued.

	DR.	CR.
Amounts brought forward ..	$89,920 68	$217,629 14
By appropriation, Ordinance No. 51, 1879, for Dispensaries, as follows:		
Southern	600 00	600 00
Northeastern	600 00	600 00
Baltimore General	400 00	400 00
College of Physicians and Surgeons	400 00	400 00
Baltimore Special	400 00	400 00
Northwestern	400 00	400 00
University of Maryland	400 00	400 00
Eastern	400 00	400 00
Homœpathic Free	400 00	400 00
By appropriation, Ordinance No. 51, 1879, for St. Mary's Industrial School		20,000 00
Paid to St. Mary's Industrial School	20,000 00	
By appropriation, Ordinances No. 51 and 84, 1879, for Mount Hope Retreat		12,300 00
Paid to Mount Hope Retreat	12,157 52	
By appropriation, Ordinance No. 51, 1879, for Deaf and Dumb		500 00
Amounts carried forward...	$126,078 20	$254,429 14

TABLE G—Continued.

	DR.	CR.
Amounts brought forward...	$126,078 20	$254,429 14
Paid for account of Deaf and Dumb	490 20	
By appropriation, Ordinance No. 51, 1879, for Indigent Sick at Universities		9,000 00
Paid to University of Maryland.	4,056 44	
Paid to Washington University.	4,212 43	
By appropriation, Ordinance No. 51, 1879, for Widows and Orphans of War of 1812		200 00
Paid to Widows and Orphans of War of 1812	200 00	
By appropriation, Ordinance No. 51, 1879, for the Old Defenders of the War of 1812		300 00
Paid to the Old Defenders of the War of 1812	300 00	
By appropriation, Ordinance No. 51, 1879, for Maryland Hospital for the Insane		25,000 00
Paid to Maryland Hospital for the Insane	24,159 94	
	$159,497 21	$288,929 14

TABLE G—Continued.

Tax Sales.

	DR.	CR.
To amount paid for purchases of property by the Mayor and City Council to secure taxes...	$17,217 28	
By amount received from sundry parties, for redemption of property previously sold.....		$8,721 47
By balance, December 31, 1879.		8,495 81
	$17,217 28	$17,217 28

State Police.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879.....		$600,000 00
To amount paid on warrants of the Police Commissioners	$584,719 01	
To balance, December 31, 1879	15,280 99	
	$600,000 00	$600,000 00
Received from the City Collector on account of the tax levy for the Police Department.....	$527,840 15	

TABLE G—Continued.

Taxes Refunded.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$10,000 00
To amount of taxes refunded to sundry parties by order of the Appeal Tax Court	$9,977 00	
To balance December 31st, 1879.	23 00	
	$10,000 00	$10,000 00

Public Printing.

	DR.	CR.
By appropriation, Ordinance No. 19, 1879, favor John Cox		$680 00
By appropriation, Ordinance No. 51, 1879		$2,500 00
By amount received from the City Commissioner		24 00
To amount paid to John Cox for printing and binding ordinances and resolutions from 1828 to 1831	$680 00	
To amount paid for advertising.	1,897 36	
To balance December 31st, 1879.	626 64	
	$3,204 00	$3,204 00

TABLE G—Continued.

Fire Department.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$156,000 00
By amount received from sale of equipments, refuse, &c		1,263 12
To amount paid on warrants of the Fire Commissioners for expenses of the Fire Department and the Police and Fire Alarm Telegraph	$155,993 63	
To balance December 31st, 1879.	1,269 49	
	$157,263 12	$157,263 12

City Council.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$50,000 00
By amount received, over-payment on a bill due by the City Council		10 00
To amount paid for salaries of officers and members and for incidental expenses	$50,006 98	
To balance December 31st, 1879.	3 02	
	$50,010 00	$50,010 00

TABLE G—Continued.

Sale of City Property.

	DR.	CR.
By amount received from the sale of property N. E. corner of Fayette and Holiday streets		$6,400 00
By amount received, final payment on Western Police Station House		1,394 66
By amount received from sale of old material in building corner of North and Eager streets		35 00
By amount received from sale of one old stove		2 50
By amount received from sale of iron doors removed from Maryland Institute market		7 50
By amount received from sale of property corner Holliday and Bath streets		1,350 00
By amount received on account of old Almshouse property		250 00
By amount received on account of property S. W. corner Front and Centre streets		458 33
By amount received from sale of Colored School House, Raborg street		175 00
To amount paid for auctioneers' commissions, advertising, &c.	$469 55	
To balance December 31st, 1879.	9,603 44	
	$10,072 99	$10,072 99

TABLE G—Continued.

Elections.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$8,000 00
To amount paid for per diem of Judges and Clerks, room rent, advertising, stationery, &c	$7,616 77	
To balance December 31st, 1879.	383 23	
	$8,000 00	$8,000 00

Supervisors of Elections.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$2,500 00
To amount paid to Clerk	$499 98	
To amount paid to Messenger	162 50	
To amount paid for incidental expenses	12 00	
To amount paid for advertising.	1,200 21	
To amount paid for administering oath to Judges and Clerks.	100 00	
To balance December 31st, 1879.	525 31	
	$2,500 00	$2,500 00

TABLE G—Continued.

Public Schools.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$600,000 00
To amount paid for salaries and other expenses of white schools	$540,393 62	
To amount paid on account of colored schools	59,604 35	
To balance December 31st, 1879.	2 03	
	$600,000 00	$600,000 00
Receipts from various sources on account of Public Schools:		
From the City Collector on account of the tax levy	$404,339 37	
From the State, the city's proportion of the State tax	139,677 16	
From J. F. Plummer, executor..	129 59	
From H. M. Cowles, Secretary, for use of books, &c	46,979 68	
	$591,125 80	

TABLE G—Continued.

Special Appropriations.

	DR.	CR.
Favor of A. M. Kremer, resolution No. 30, 1879	$27 50	$27 50
" Wm. Green, resolution No. 31, 1879	75 00	75 00
" W. H. Kremer, resolution No. 33, 1879	311 21	311 21
" Thos. McCormick, resolution No. 47, 1879	112 00	112 00
" R. C. Maclellan, resolution No. 57, 1879	25 00	25 00
" W. H. Small, resolution No. 63, 1879	528 03	528 03
" Dr. T. R. Brown, resolution No. 79, 1879		25 00
" Mrs. C. Heldman, resolution No. 81, 1879	22 20	22 20
" Thos. Lester, resolution No. 82, 1879	12 50	12 50
" C. G. Krile, resolution No. 97, 1879	57 78	57 78
" A. B. Prout, resolution No. 94, 1879		5 88
Amounts carried forward	$1,171 22	$1,202 10

TABLE G—Continued.

Amounts brought forward.....	$1,171 22	$1,202 10
Favor of Wm. Carback, resolution No. 127, 1879.....	60 00	60 00
" F. T. Miles, resolution No. 131, 1879.....	30 00	30 00
" E. H. Rutledge, resolution No. 131, 1879.....	25 00	25 00
" O. J. Coskery, resolution No. 168, 1879.....	50 00	50 00
" J. D. Iglehart, resolution No. 168, 1879	25 00	25 00
" E. R. Walker, resolution No. 168, 1879.....	25 00	25 00
" S. J. Martenet, resolution No. 172, 1879.....	331 00	331 00
" T. K. McCormick, resolution No. 174, 1879.....	750 00	750 00
" J. H. Millikin & Sons, resolution No. 189, 1879.....	15 00	15 00
" F. Elterman, resolution No. 193, 1879.....	769 54	769 54
Amounts carried forward.....	$3,251 76	$3,282 64

TABLE G—Concluded.

Amounts brought forward.....	$3,251 76	$3,282 64
Favor of Cath. Mallen, resolution No. 225, 1879.....	3,770 27	3,770 27
" Isaac Cox, resolution No. 228, 1879	583 33	583 33
" S. Janowitz, resolution No. 244, 1879		50 00
Balance December 31st, 1879.....	80 88	
	$7,686 24	$7,686 24

TABLE H.

City Commissioner.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$9,525 00
To amount paid for salaries	$9,000 00	
To amount paid for livery	500 00	
To amount paid for incidental expenses	10 80	
To balance December 31st, 1879.	14 20	
	$9,525 00	$9,525 00

Repairs Paved Streets.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$55,000 00
By amount received from Baltimore and Ohio Railroad Co.		82 56
By amount received from Consumers' Mutual Gas Light Co.		305 55
By amount received, over-drafts on pay-rolls		7 62
To amount paid for repairs of paved streets	$54,731 97	
To balance December 31st, 1879.	663 76	
	$55,395 73	$55,395 73

TABLE H—Continued.

Iron Plates.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$3,600 00
By amount received from Baltimore and Ohio Railroad Co. and N. C. Ry. Co		24 13
By amount received from Philadelphia, Wilmington and Baltimore Railroad Co		18 27
By amount received from Baltimore City Passenger Railway Company		31 86
By amount received, over-draft on pay-roll		87
To amount paid for iron plates at sundry streets	$3,461 16	
To balance December 31st, 1879.	213 97	
	$3,675 13	$3,675 13

Repairs of Sewers.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$6,000 00
By amount received from permits to connect with sewers		427 60
To amount paid for repairs of sewers	$5,979 58	
To balance December 31st, 1879.	448 02	
	$6,427 60	$6,427 60

TABLE H—Continued.

Improvement of Jones' Falls.

	DR.	CR.
To balance January 1st, 1879	$703,690 74	
Less amount charged to this account paid prior to the passage of Ordinance No. 131, approved Nov. 9th, 1874, appropriating $800,000.....	101,735 21	
	$601,955 53	
To amount paid on the warrants of the City Commissioner.....	305,660 31	
By amount received from the City Commissioner.....		$100 00
By balance December 31st, 1879.		907,515 84
	$907,615 84	$907,615 84

Chatsworth Run Sewer.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879.....		$5,500 00
By amount received from sale of old material.....		150 00
To amount paid on warrants of the City Commissioner.....	$5,497 39	
To balance December 31st, 1879.	152 61	
	$5,650 00	$5,650 00

TABLE H—Continued.

Bloom Street Sewer.

	DR.	CR.
By appropriation, Resolution No. 130, 1879		$3,800 00
To amount paid on the warrants of the City Commissioner	$1,620 18	
To amount transferred to the account for "Building retaining walls at Carey street sewer," as per Resolution No. 226, approved Sept. 30th, 1879.	1,979 82	
To balance December 31st, 1879.	200 00	
	$3,800 00	$3,800 00

Building Retaining Walls at Carey Street Sewer.

	DR.	CR.
By amount transferred from "Bloom street Sewer" account, as per Resolution No. 226, approved Sept. 30th, 1879.		$1,979 82
To amount paid on the warrants of the City Commissioner	$1,816 72	
To balance December 31st, 1879.	163 10	
	$1,979 82	$1,979 82

TABLE H—Continued.

Expenditures and Appropriations City Commissioner's Department.

	DR.	CR.
Paving in front of city property	$280 66	$800 00
Repaving streets	1,824 08	2,000 00
Harford Run sewer	1,875 63	18,072 05
Regrading Chase street	13 60	1,700 00
Inlets at Baker Circle	234 40	281 94
Repairs of bridges	3,473 47	3,500 00
Repairs of unpaved streets	1,447 64	1,500 00
Paving and repaving cross streets	22,123 94	25,000 00
Flag and stepping stones	9,961 12	10,000 00
Shelling Loney's lane	200 00	200 00
North avenue sewer over Harford Run	8,299 37	8,300 00
North avenue sewers connecting with Greenmount Cemetery	2,680 00	2,680 00
Regrading Carlton street	336 06	342 00
Balance, December 31st, 1879	21,626 02	
	$74,375 99	$74,375 99

TABLE H—Continued.

Repairs of Engine Houses.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$7,000 00
By appropriation, Resolution No. 40, 1879, for repairs to clock in No. 6 engine house		100 00
To amount paid on warrants of the Inspector of Buildings for repairs during the year 1879	$962 12	
Deficiency bills of 1878	395 20	
Repairs to clock in No. 6 engine house	50 00	
To amount paid on warrants of the Fire Commissioners	5,634 27	
To balance, December 31st, 1879.	58 41	
	$7,100 00	$7,100 00

Enlarging Grammar and Primary School House No. 20.

	DR.	CR.
By appropriation, Resolution No. 132, 1879		$7,000 00
To amount paid for house No. 418 N. Eden street	$3,000 00	
To amount paid on warrants of the Inspector of Buildings	3,155 25	
To balance, December 31st, 1879.	844 75	
	$7,000 00	7,000 00

TABLE H—Continued.

Expenditures and Appropriations, Inspector of Buildings' Department.

	DR.	CR.
Repairs of city property for the year 1879, Ordinance No. 51, 1879	$4,597 89	$4,660 11
Deficiency bills of 1878, on account of repairs of city property, Ordinance 51, 1879	339 79	339 89
Fitting up upper rooms in the City Hall for the use of the City Librarian, Resolution No. 53, 1879	475 53	480 00
Repairs to 5th Regiment Armory, Resolution No. 156, 1879.	699 69	700 00
Additional connections to the heating apparatus in the City Hall, Resolution No. 158, 1879.	748 00	748 00
Repairs of Public School buildings for the year 1879, Ordinance No. 51, 1879	16,968 26	17,141 93
Deficiency bills of 1878, on account of repairs of Public School buildings, Ordinance No. 51, 1879	2,857 35	2,858 07
Amounts carried forward...	$26,786 51	$26,928 00

TABLE H—Continued.

	DR.	CR.
Amounts brought forward.	$26,786 51	$26,928 00
To build a retaining wall, &c., at public school house No. 7, Resolution No. 143, 1879.....	271 50	300 00
Repairs to public school house No. 27, Resolution No. 21, 1879	782 06	800 00
Repairs to rooms in old City Hall for school purposes, Resolution No. 187, 1879.....	298 85	300 00
Building English-German school house No. 3, Ordinance No. 51, 1879.....	15,413 28	16,000 00
Building Male Grammar and Primary school house No. 1, Ordinance No. 23, 1879.....	4,150 67	9,000 00
Salary of Inspector of Buildings and Clerk, and incidental expenses, Ordinance No. 51, 1879.	3,004 00	3,100 00
Balance, December 31st, 1879.....	5,821 13	
	$56,428 00	$56,428 00

TABLE H—Continued.

Gas.

	DR.	CR.
By appropriation ordinance No. 51, 1879		$130,000 00
By appropriation ordinance No. 51, 1879, for incidental expenses of the Inspector of Gas		75 00
To amount paid on the warrants of the General Superintendent of Lamps, &c	$110,040 59	
To amount paid to the Inspector of Gas	75 00	
To balance December 31st, 1879	19,959 41	
	$130,075 00	$130,075 00

TABLE H—Continued.

Gasoline Lamps, Lamp Pillars and Lamps and Repairs of Lamps.

	DR.	CR.
By appropriation ordinance No. 51, 1879		$22,831 47
By appropriation ordinance No. 51, 1879, to pay deficiency bills of 1878		368 53
By amount received from sundry parties for injury to lamps		95 95
To amount paid on the warrants of the General Superintendent of Lamps, &c	$21,006 18	
To balance December 31st, 1879.	2,289 77	
	$23,295 95	$23,295 95

Condemnation of Federal Hill for a Public Park.

	DR.	CR.
By appropriation ordinance No. 51, 1879		$76,230 42
To amount paid for damages as per the returns made by the Commissioners for Opening Streets	$67,227 22	
To balance December 31st, 1879.	$9,003 20	
	$76,230 42	$76,230 42

TABLE H—Continued.

Dog Pound.

	DR.	CR.
By appropriation ordinance No. 34, 1879		$1,000 00
By appropriation resolution No. 198, 1879		1,000 00
By appropriation ordinance No. 84, 1879		800 00
By amount received for dead dogs		32 86
By amount received for dogs sold at auction		268 65
By amount received for dogs redeemed		60 00
To amount paid for fitting up pound.	$ 740 26	
" " dogs captured	1,791 00	
" " stationery	28 37	
" " feed	15 40	
" " ground rent	150 00	
" of redemption money remitted by the Mayor.	3 00	
To balance December 31st, 1879.	433 48	
	$3,161 51	$3,161 51

TABLE H—Continued.

Expenditures and Appropriations for Sundry Accounts.

	DR.	CR.
Salaries of sundry officers.....	$64,000 21	$64,361 45
Court House and Record Office, expenses of.....	4,298 13	4,300 00
Old Masonic Hall, expenses of...	2,988 89	2,992 00
Printing laws of Maryland from 1729 to 1830.....	1,114 00	1,200 00
Purchasing 100 copies of Klemm's map of Baltimore	35 00	35 00
Ice boat Maryland	22,000 00	22,000 00
Codifying ordinances and statutes	1,400 00	1,400 00
State tax on city loans.....	8,024 62	13,000 00
Ringing mechanics' bells	200 00	200 00
Superintendent of the City Hall	13,630 78	15,000 00
Portrait of ex-Mayor George P. Kane.....	300 00	300 00
Expenses of the Mayoralty.....	1,375 80	2,000 00
Transportation to House of Correction.....	208 60	250 00
Printing City Code of 1879.....	1,720 00	1,720 00
Amounts carried forward ...	$121,296 03	$128,758 45

TABLE H—Concluded.

Amounts brought forward...	$121,296 03	$128,758 45
Lithrographing maps of the harbor.....	300 00	300 00
Red glass for street lamps.....	216 76	216 76
Lamplighters' salaries.....	42,432 00	43,000 00
Commissioners for Opening Streets, incidental expenses.	102 84	150 00
General expense.....	1,470 53	2,000 00
City Librarian, stationery for the different departments	6,081 37	7,000 00
Transportation of poor	747 14	1,000 00
Insurance of Bayview Asylum...	855 00	862 50
Balance December 31st, 1879	9,786 04	
	$183,287 71	$183,287 71

TABLE I.

Opening Wilkens Avenue.

	DR.	CR.
To balance January 1st, 1879.....	$7,162 07	
By amount received from the City Register, paid him in error.....		$ 10 00
By balance December 31st, 1879		7,152 07
	$7,162 07	$7,162 07

Opening Wilcox Street.

	DR.	CR.
To balance January 1st, 1879.....	$207 63	
By amount received for benefits		$ 2 25
By balance December 31st, 1879.....		205 38
	$207 63	$207 63

TABLE I—Continued.

Opening Eden Street.

	DR.	CR.
To balance January 1st, 1879	$ 831 58	
To amount paid for damages	47,593 50	
By appropriation ordinance No. 51, 1879		$20,504 03
By amount received for benefits		10,231 10
By amount received for ground and material sold		10,156 02
By balance December 31st, 1879		7,533 93
	$48,425 08	$48,425 08

Opening Ensor Street.

	DR.	CR.
By balance January 1st, 1879		$ 404 72
By appropriation ordinance No. 51, 1879		1,020 52
By amount received for benefits		19 37
To amount paid for surveys, advertising, &c.	$ 429 99	
To balance December 31st, 1879	1,014 62	
	$1,444 61	$1,444 61

TABLE I—Continued.

Opening Humes Street.

	DR.	CR.
By balance January 1st, 1879.....		$344 02
To amount paid for damages	$150 00	
To balance December 31st, 1879.....	194 02	
	$344 02	$344 02

Opening Lexington Street.

	DR.	CR.
By appropriation ordinance No. 51, 1879		$963 43
To amount refunded for benefits previously paid.....	$359 54	
To balance December 31st, 1879.....	603 89	
	$963 43	$963 43

TABLE I—Continued.

Opening Bond Street.

	DR.	CR.
By balance January 1st, 1879....		$1,552 76
By amount received for benefits.		981 12
To balance, December 31st, 1879.	$2,533 88	
	$2,533 88	$2,533 88

Opening Presstman Street.

	DR.	CR.
To balance January 1st, 1879.....	$462 37	
To amount paid for surveys, advertising, &c.....	534 92	
By balance, December 31st, 1879.		$997 29
	$997 29	$997 29

TABLE I—Continued.

Opening McHenry Street.

	DR.	CR.
To balance January 1st, 1879.....	$13 61	
By amount received for benefits.		$11 20
By balance December 31st, 1879.		2 41
	$13 61	$13 61

Opening McKim Street.

	DR.	CR.
By balance January 1st, 1879....		$372 57
By appropriation Ordinance No. 51, 1879.....		3,981 72
By amount received for benefits.		69 75
To balance December 31st, 1879.	$4,424 04	
	$4,424 04	$4,424 04

TABLE I—Continued.

Opening Valley Street.

	DR.	CR.
By balance January 1st, 1879....		$1,130 77
By amount received for benefits.		1,318 16
To balance December 31st, 1879.	$2,448 93	
	$2,448 93	$2,448 93

Opening St. Paul Street.

	DR.	CR.
By balance January 1st, 1879.....		$1,403 60
By appropriation, Ordinance No. 84, 1879.....		1,118 37
By amount received for benefits.		2,807 23
To amount paid for damages....	$5,242 50	
To balance December 31st, 1879.	86 70	
	$5,329 20	$5,329 20

TABLE I—Continued.

Opening North Street.

	DR.	CR.
To balance January 1st, 1879.....	$794 25	
To amount paid for surveys, advertising, &c	211 78	
To amount paid for damages.....	77 60	
By amount received for benefits.		$650 00
By balance December 31st, 1879.		433 63
	$1,083 63	$1,083 63

Widening Orleans Street.

	DR.	CR.
By appropriation, Ordinance No 51, 1879.....		$472 67
To amounts refunded for benefits previously paid	$87 75	
To balance December 31st, 1879.	384 92	
	$472 67	$472 67

TABLE I.—Continued.

Opening Franklin Street.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$196 37
To amount refunded for benefits previously paid	$11 89	
To balance December 31st, 1879.	184 48	
	$196 37	$196 37

Opening Broadway.

	DR.	CR.
By balance January 1st, 1879		$2,920 89
By appropriation, Ordinance No. 51, 1879		28,661 48
By amount received for benefits.		8,334 94
To balance December 31st, 1879.	$39,917 31	
	$39,917 31	$39,917 31

TABLE I—Continued.

Opening Bloom Street.

	DR.	CR.
By balance January 1st, 1879.....		$128 00
By amount received for material sold.....		40 00
To balance December 31st, 1879.	$168 00	
	$168 00	$168 00

Opening Biddle Street.

	DR.	CR.
By balance January 1st, 1879.....		$761 45
By amount received for benefits.		98 98
To balance December 31st, 1879.	$860 43	
	$860 43	$860 43

TABLE I—Continued.

Opening Forrest Street.

	DR.	CR.
By appropriation, Ordinance No. 51, 1879		$325 58
To amount refunded for benefits previously paid	$27 25	
To balance, December 31st, 1879.	$298 33	
	$325 58	$325 58

Opening Caroline Street.

	DR.	CR.
To balance January 1st, 1879	$894 39	
By appropriation, Ordinance No. 51, 1879		$4,987 55
By amount received for benefits.		2,350 44
To balance, December 31st, 1879.	6,443 60	
	$7,337 99	$7,337 99

TABLE I—Continued.

Opening Oliver Street.

	DR.	CR.
To balance, January 1st, 1879....	$745 39	
To amount paid for damages....	407 25	
To amount paid for auctioneer's commissions.....	10 00	
By appropriation, Ordinance No. 51, 1879.....		$8,588 80
By amount received for benefits		2,426 99
To balance, December 31st, 1879.	9,853 15	
	$11,015 79	$11,015 79

Opening Castle Street.

	DR.	CR.
To balance, January 1st, 1879 ...	$287 73	
To amount paid for damages....	5,560 00	
To amount paid for auctioneer's commissions.....	10 00	
By appropriation, Ordinance No. 51, 1879.....		$3,172 38
By amount received for benefits		2,617 51
By amount received for material sold.....		180 00
To balance, December 31st, 1879	112 16	
	$5,969 89	$5,969 89

TABLE I—Continued.

Widening Eutaw Street.

	DR.	CR.
By balance, January 1st, 1879....		$1,241 55
By appropriation, Ordinance No. 51, 1879.....		61,171 81
By amount received for benefits		38,026 71
By amount received for ground sold.....		950 00
To amount paid for damages....	$70,153 90	
To balance, December 31st, 1879,	31,236 17	
	$101,390 07	$101,390 07

Opening Covington Street.

	DR.	CR.
To balance, January 1st, 1879.....	$709 51	
To amount paid for auctioneer's commissions.....	10 00	
By amount received for benefits...		$18 75
By balance, December 31st, 1879...		700 76
	$719 51	$719 51

TABLE I—Continued.

Opening Addison Alley.

	DR.	CR.
To balance, January 1st, 1879....	$342 00	
To amount paid for damages....	2,495 95	
By appropriation, Ordinance No. 51, 1879....		$1,661 22
By amount received for benefits.		1,174 48
By balance, December 31st, 1879.		2 25
	$2,837 95	$2,837 95

Opening a 66 feet Street, from Oliver Street to North Avenue.

	DR.	CR.
To balance, January 1st, 1879....	$412 75	
To amount paid for damages....	7,900 70	
By appropriation, Ordinance No. 51, 1879....		$1,826 25
By amount received for benefits.		6,527 53
To balance, December 31st, 1879.	40 33	
	$8,353 78	$8,353 78

TABLE I—Continued.

Closing Ferry Point Road.

	DR.	CR.
To balance, January 1st, 1879....	$449 14	
To amount paid for advertising.	29 18	
By balance, December 31st, 1879.		$478 32
	$478 32	$478 32

Opening Wilmer Alley.

	DR.	CR.
By balance, January 1st, 1879....		$199 98
By amount received for benefits		182 56
To amount paid for surveys, advertising, &c.....	$283 16	
To balance, December 31st, 1879.	99 38	
	$382 54	$382 54

TABLE I—Continued.

Opening Boundary Avenue.

	DR.	CR.
To balance, January 1st, 1879....	$10,766 81	
By amount received for material sold.....		$30 00
By balance, December 31st, 1879		10,736 81
	$10,766 81	$10,766 81

Opening Vincent Alley.

	DR.	CR.
To amount paid for surveys, advertising, &c.....	$430 63	
By amount received for benefits		$250 78
By balance, December 31st, 1879		179 85
	$430 63	$430 63

TABLE I—Continued.

Closing a Lane from Madison Avenue to Eutaw Street.

	DR	CR.
To amount paid for surveys, advertising, &c.....	$197 81	
By amount received for benefits		$40 00
By balance, December 31st, 1879		157 81
	$197 81	$197 81

Closing a Lane between North Avenue and Presstman Street.

	DR.	CR.
By amount received for benefits		$20 00
To balance, December 31st, 1879	$20 00	
	$20 00	$20 00

TABLE I—Continued.

Opening Choptank Street.

	DR.	CR.
To balance, January 1st, 1879. . .	$467 95	
By amount received for material sold		$12 00
By balance, December 31st, 1879		455 95
	$467 95	$467 95

Opening Wolf Street.

	DR.	CR.
To amount paid for surveys, advertising, &c.	914 45	
By amount received for benefits		$31 28
By balance, December 31st, 1879		883 17
	$914 45	$914 45

TABLE I—Continued

Amount paid for Surveys, Advertising and Auctioneer's Commissions for Sundry Streets.

	DR.	CR.
Eager street opening	$ 218 35	
Marshall street, No. 5, opening	32 50	
Lawrence street opening	308 60	
Federal street opening	1,166 38	
Bruce alley opening	447 52	
Robert street opening	363 13	
Chatsworth run sewer, condemnation of	373 70	
Truxton street opening	284 23	
By balance December 31st, 1879		$3,199 41
	$3,199 41	$3,199 41

TABLE I—Continued.

Paving Stricker Street.

	DR.	CR.
To balance January 1st, 1879.	$814 70	
To amount paid for paving.....	175 13	
By amount received from the City Collector.....		$ 1 23
By appropriation ordinance No. 51, 1879		175 13
By balance December 31st, 1879.....		813 47
	$989 83	$989 83

Paving Aliceanna Street.

	DR.	CR.
By appropriation ordinance No. 84, 1879		$121 02
To amount paid for paving.	$121 02	
	$121 02	$121 02

TABLE I—Continued.

Paving Boston Street.

	DR.	CR.
To balance January 1st, 1879.....	$4,567 78	
To amount paid for paving.....	1,418 36	
By appropriation ordinance No. 84, 1879		$1,418 36
By amount received from the City Collector.		444 78
By balance December 31st, 1879.....		$4,123 00
	$5,986 14	$5,986 14

Paving Lombard Street.

	DR.	CR.
By appropriation ordinance No. 84, 1879		$1,330 26
To amount paid for paving.....	$1,330 26	
	$1,330 26	$1,330 26

TABLE I—Continued.

Paving Post-Office Avenue.

	DR.	CR.
By appropriation ordinance No. 51, 1879		$69 71
To amount refunded for paving assessments previously paid	$69 71	
	$69 71	$69 71

Paving Light Street.

	DR.	CR.
By appropriation ordinance No. 51, 1879		$258 69
By amount received from the City Collector		37 24
To amount refunded for paving assessments previously paid	$190 60	
To balance December 31st, 1879	105 33	
	$295 93	$295 93

TABLE I—Continued.

Paving South Street.

	DR.	CR.
By appropriation ordinance No. 51, 1879		$247 75
To amount refunded for paving assessments previously paid	$171 11	
To balance December 31st, 1879	76 64	
	$247 75	$247 75

TABLE I—Continued.

Amount paid for paving streets, and also the amount received from the City Collector, payment by sundry parties.

	DR.	CR.
Hampstead street		$200 00
Sterrett street		826 04
Frederick avenue		292 46
Hoffman street, No. 1		168 81
Fayette street		300 51
Spring "		21 39
McCabe "		135 54
Ostend "		377 68
McElderry "	$2,291 82	214 49
Baltimore "		3,316 88
Chew "	176 11	
Dover "	17 90	
Foster alley		72 73
Hammond alley	44 78	
Oliver street		550 93
Eager "	89 03	
Baker " No. 2	377 60	
Pearl "	152 50	46 29
Bethel "	710 77	
King "	236 34	
Jackson "	8,315 99	1,682 08
Hall alley		154 96
Amounts carried forward	$12,412 84	$8,360 79

TABLE I—Concluded.

	DR.	CR.
Amounts brought forward.....	$12,412 84	$8,360 79
Canton avenue	354 06	
Vincent alley.....	432 46	95 62
Pitcher street.....		291 94
Mason alley.....	324 59	43 12
Covington street.	636 52	158 74
Beason "	826 01	233 66
Marshall "	2,429 30	35 88
Argyle avenue.....	838 58	212 81
Baker street, No. 3.....		323 09
Courtland street.....		19 64
Townsend "		1,984 19
Washington street.....		4,262 94
Lanvale "		1,198 50
Jackson court		103 03
Bounty lane.....		14 37
Exeter street.....		243 78
Pratt "		1,159 33
St. Paul "		114 52
Calvert "		768 90
Saratoga "		2,729 73
Eden "		72 99
An alley 15 feet wide, from Wilson street to Presstman street.....		84 84
Mount street		418 10
Interest on paving account.....		552 89
	$18,254 36	$23,483 40

ANNUAL REPORT

OF THE

JUDGES OF THE APPEAL TAX COURT

TO THE

MAYOR AND CITY COUNCIL

OF BALTIMORE,

For the Year Ending December 31st, 1879.

REPORT.

BALTIMORE, January 1st, 1880.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

We beg leave herewith to submit the result of our labors for the year of 1879, which closed on the 31st day of December.

Tabular statment marked "A" shows the taxable basis charged to the City Collector, from the years 1875 to 1879, inclusive, with the assessments added to each, and the collections and abatements made on each.

Table "B" exhibits, by wards, the number of building permits issued during the year.

Table "C," the Assessor's report, shows the number of new buildings and additional improvements assessed by the Court's Assessor; the wards in which they are severally located, and the detailed and aggregate valuations of the same.

Table "D" shows the result of the labors of the Assessors, appointed under an ordinance of the Mayor and City Council, April, 1879.

TABLE A.

Statement of property for each year, that stands charged to the City Collector, December 31st, 1879.

1875.	Direct.
Amount of assessment unpaid January 1st, 1879	$3,901,426
Amount of new assessments	9,800
	$3,911,226
Less abatements	622,544
" amount collected upon	1,655,974
Amount remaining uncollected, closed by limitation	1,632,708
	$3,911,226

1876.	Direct.
Amount of assessment unpaid January 1st, 1879	$19,081,422
Amount of new assessments	35,888
	$19,117,310
Less abatements	1,358,210
" amount collected upon	13,073,192
Amount remaining uncollected	4,685,908
	$19,117,310

1877.	Real.	Personal.
Amount of assessment unpaid January 1st, 1879	$30,446,500	$20,035,165
Amount of new assessments	6,180	41,360
Amount of refunds, to January 1st, 1880	20,783	
	$30,473,463	$20,076,525

Less amounts of abatements....	1,964,799	9,647,474
" " collected upon....	10,153,321	3,024,071
Amount remaining uncollected	18,355,343	7,404,980
	$30,473,463	$20,076,525

1878.	Real.	Personal.
Amount of assessment unpaid January 1st, 1879.....	$74,621,553	$22,622,175
Amount of new assessments.....	9,236	399,160
" refunds to January 1st, 1880.	133,599	
	$74,764,388	$23,061,335
Less amount of abatements.....	3,832,348	8,985,437
" " collected upon.....	40,498,537	4,975,177
Amount remaining uncollected..	30,433,503	9,100,721
	$74,764,388	$23,061,335

1879.	Real.	Personal.
March 1. Amount of assessment remaining as portion of assessment of 1878.....	$189,094,717	$49,290,453
Add new assessment Incorporated Co. stock		20,734,184
Add new assessment.....	318,531	214,941
	$189,413,248	$70,239,578
Less amount of abatements.....	5,833,225	9,776,420
" " collected upon.....	118,871,157	41,257,726
Amount remaining uncollected..	64,708,866	19,205,432
	$189,413,248	$70,239,578

RECAPITULATION.

Amount for different years charged to the City Collector, January 1st, 1880.

1876	$4,685,908
1877, real	18,355,343
1877, personal	7,404,980
1878, real	30,433,503
1878, personal	9,100,721
1879, real	64,708,866
1879, personal	19,205,432
	$153,894,753

TABLE B.

The number of permits issued from January 1st, 1879, to December 31st, 1879, for new buildings and improvements, was fourteen hundred and sixty-two (1462), and apportioned among the several wards as follows:

Wards.	New Improvements.	Additional Improvements.	Total.
1	43	64	107
2	20	41	61
3	5	29	34
4	5	18	23
5	10	29	39
6	19	34	53
7	44	40	84
8	51	16	67
9	18	19	37
10	25	27	52
11	16	26	42
12	64	18	82
13	14	16	30
14	7	28	35
15	9	27	36
16	64	30	94
17	143	23	166
18	128	43	171
19	136	37	173
20	47	29	76
	868	594	1,462

TABLE C.

BALTIMORE, January 1st, 1880.

To Honorable Judges of Appeal Tax Court:

The following table will show the number of new and additional improvements, as assessed by me in the different wards, with the cash value thereof, during the year 1879.

Wards.	New Improvements.	Additional Improvements.	Cash Value.
1	40	58	$113,725
2	29	34	61,725
3	7	21	18,925
4	8	14	23,935
5	9	31	29,000
6	3	34	18,600
7	52	46	60,930
8	42	17	81,525
9	19	22	72,475
10	19	25	129,445
11	18	28	152,500
12	58	22	288,135
13	12	13	11,385
14	7	26	18,400
15	7	27	25,875
16	55	33	66,175
17	118	26	73,310
18	124	40	148,195
19	133	56	211,400
20	37	28	65,675
Totals	797	601	$1,671,335

Very respectfully,

MICHAEL ROCHE, *Assessor.*

TABLE D.

To the Honorable Judges of the Appeal Tax Court:

The undersigned respectfully submit the following report in reference to the re-assessment of property, made by us under your instructions, showing by wards the number of pieces of property examined; the amount of increase and abatements recommended, and also, the number of appeals dismissed.

Wards	Number of Appeals.	Appeals Granted.	Appeals Dismissed.	Amounts Abated.
1	49	28	21	$ 6,119
2	29	23	6	11,350
3	34	18	16	7,600
4	31	19	12	4,900
5	83	49	34	14,150
6	125	80	45	20,616
7	100	22	78	5,381
8	50	12	38	7,141
9	120	70	50	107,039
10	61	28	33	30,250
11	89	45	44	38,300
12	107	39	68	23,053
13	38	13	25	8,925
14	56	32	24	13,606
15	85	52	33	73,054
16	206	151	55	71,950
17	179	155	24	27,835
18	103	19	84	16,400
19	257	142	115	56,712
20	121	41	80	18,156
	1,923	1,038	885	$562,537

Number of pieces of property re-assessed	737
Amount of increase recommended	$3,421,454
Less abatements on improvements	544,631
Net increase	$2,876,823

Respectfully submitted,

WM. W. CRNDORFF,
ISAAC COX,
Assessors.

JAS. F. DEALE, *Clerk.*

BALTIMORE, January 1st, 1880.

To the Honorable Judges of the
Appeal Tax Court for Baltimore City:

GENTLEMEN:

The undersigned reports the bailiff's department as having made assessments of personal property, to March 1st, 1879, of the following amount: nine hundred and ninety-nine thousand four hundred and twenty-eight dollars, ($999,428).

Respectfully submitted,

MICHAEL P. CAUGHY, *Bailiff.*

REFUNDS.

From January 1st 1879, to December 31st, 1879, there have been one hundred and thirty-nine (139) orders for refunding of taxes; given generally to parties who have paid in error, either as double payments or on wrong property, and for errors in calculation of lot of ground.

TRANSFERS.

From the 1st of January, 1879, to December 31st, 1879, there have been three thousand and ninety-eight (3,098) transfers of property.

By reference to the foregoing table "A," it will be seen that the abatements made during the year were the following:

From the basis of	1875	$ 622,544
" "	1876	1,358,210
" "	1877	11,612,273
" "	1878	12,817,785
" "	1879	15,609,645
Total		$42,020,457

Owing to the assessment of property belonging to railroad companies—only a part of which was decided by the Courts to be taxable—the abatements for the years 1877, 1878 and 1879 are largely in excess of former years.

The Act of 1878, chapter 178, which imposed upon all corporations the obligations of paying for their stockholders, instead of, as heretofore, rendering it necessary to collect of individual shareholder, has been of great advantage both to State and city, and facilitated materially in the collection of taxes.

The power also given to the Appeal Tax Court to revise the assessment of real estate annually—whilst it has created much additional labor upon this Court—was but a simple act of justice, and has worked as well as could be expected from our limited force, and enabled us, to a certain extent, to correct errors, and equalize, in a measure, the value of the property of the city.

But we would suggest that some legislation is absolutely necessary to accomplish a more general and equitable system of taxation; for, independent of the gross injustice to the owners of *real estate*, it is becoming a grave and serious question, whether it alone can sustain the burden of government, and especially, in view of the liberal and broad exemptions that every successive Legislature is granting.

Here are schools, (with honorable competitors), whose principals are clever enough to go to the Legislature, and get acts of incorporation, and thus become exempt; not only depriving the State and the city of their just dues, but also obtaining an advantage over their less favored rivals.

There are libraries, theological and biblical institutes, together with asylums and hospitals, and all other charitable institutions, and their grounds—as well as all that claim to be eleemosynary, such as Odd Fellows, Masons, Red Men, the order of Harugari, and Mechanics, &c.; to say nothing of all churches, parsonages, and the necessary grounds attached thereto. These are exempt from taxation, together with the larger portion of railroad property; and their proper burden in this regard is thrown upon the individual real estate holder.

How far the Legislature may see proper to continue or remedy this condition remains to be seen; but if they have any regard for what is just, or any respect for the public whom they represent, which we cannot question, we are sure they will endeavor to enact such laws as will afford relief to the people that are now demanding equity and justice at their hands.

We are at a loss to perceive even why church property is exempted. What difference can it make to the church-goer whether he pays the tax directly or indirectly? The exemption of his church simply adds a pro rata amount to his individual property. Nor can we understand the equity of exempting what are termed beneficial orders or societies. They are organizations for the exclusive benefit of *their own members.* How, then, can they ask, or reasonably expect, those not enjoying their benefits, in any way, *to pay their taxes*—which is the practical result of their exemption. Between Federal and State exemptions, our taxing power is now restricted to within a very narrow limit;

certainly, to within less than one-half of the real and personal property of our people.

This is all wrong, and very unjust to those who are compelled to bear the burden of it.

The people, in all parts of the State and country, are now demanding, at the hands of law-makers, equality in the matter of taxation; less partial and more general legislation; and it is to be hoped the demand will be heard and respected by our legislators.

Our present tax laws are exceedingly imperfect; many of them almost inoperative. They are simply a mass of sedimentary legal accretions, from year to year, in which every layer or law has only made the former more obscure. They are either inconsistencies, or laws without proper provisions for their execution.

These should be blotted from our statute-books, and wholesome and proper laws enacted; laws that would reach every citizen and his property, as well as all those living outside of our city limits, who are availing themselves of the advantages of her improvements, which have been created by vast expenditures of money. It is but just that those who enjoy such advantages should pay for them.

Respectfully submitted,

C. W. LEWIS,
JAMES E. CARR,
AB'M B. PATTERSON.

H. P. Mowinckel, *Chief Clerk.*
Thos. K. McCormick, *Ass't Clerk.*

ANNUAL REPORT

OF THE

HEALTH DEPARTMENT,

TO THE

MAYOR AND CITY COUNCIL

OF BALTIMORE,

For the Twelve Months Ending December 31st, 1879.

Officers and Employees of the Health Department,

OF THE

CITY AND PORT OF BALTIMORE,

FOR THE YEAR 1879.

JAMES A. STEUART, M. D.

Commissioner of Health and Registrar.

JAMES F. McSHANE, M. D.

Assistant Commissioner of Health.

E. LLOYD HOWARD, M. D.

Resident Physician at Marine Hospital.

A. ROBERT CARTER,

Secretary.

WILLIAM H. BOSLEY, *Nuisance Clerk.*
V. BURGESS HINES, *Permit Clerk.*
F. W. RABORG, *Clerk to Registrar.*

Messenger,

MONTGOMERY LAWRENCE.

Sanitary Inspectors,

GEORGE E. TAYLOR, EMANUEL WEINMAN,
JOHN COULTER, JOSEPH F. FITZPATRICK,
B. C. DIGGS,

Superintendents of Streets,

B. V. KELLY, *First Dist.* THOMAS KERNAN, *Second Dist.*
MICHAEL FADGEN, *Third Dist.* LOUIS KROEGER, *Fourth Dist.*
JOHN MEAGHER, *Fifth Dist.*

Inspectors of Sewers,

HENRY PAFF, *Eastern Dist.* JOHN W. LEE, *Western Dist.*

Superintendents of City Public Cemeteries,

PATRICK MULLEN, *Eastern.* F. A. KERCHNER, *Western.*

Vaccine Physicians.

First and Second Wards,
JAMES M. SULLIVAN, M. D., 16 Thames Street.

Third and Fourth Wards,
CHAS. M. MORFIT, M. D., 83 E. Baltimore Street.

Fifth and Sixth Wards,
E. G. WALLS, M. D., 27 North Broadway.

Seventh and Eighth Wards,
E. HALL RUTLEDGE, M. D., 151 Aisquith Street.

Ninth and Tenth Wards,
J. H. SCARFF, M. D , 4 Cathedral Street.

Eleventh and Twelfth Wards,
J. R. PAGE, M. D., 225 Linden Avenue.

Thirteenth and Fourteenth Wards,
B. F. PHILLIPS, M. D., 319 W. Lombard Street

Fifteenth and Sixteenth Wards,
S. A. BELL, M. D., Cor. Lee and Sharp Streets.

Seventeenth and Eighteenth Wards,
JAMES BOSLEY, M. D., 319 Hollins Street.

Nineteenth and Twentieth Wards,
SILAS BALDWIN, M. D., 150 W. Townsend Street.

REPORT

OF THE

COMMISSIONER.

REPORT.

HEALTH DEPARTMENT, CITY HALL,

Baltimore, Md., January 7. 1880.

To the Honorable the Mayor and
City Council of Baltimore:

GENTLEMEN:

It becomes again my duty to present the Annual Report of the Health Department of the City of Baltimore, for the year ending December 31st, 1879.

In doing so, it gives me pleasure to record the fact, that no epidemic or contagious disease has prevailed in this community during the past year, and that our death rate will compare favorably not only with the past of our own city, but also with that of any other city of 100,000 inhabitants or upwards in this country or in Europe.

The death rate for the past seven years has been as follows:

1873—Est'd	Population		304,000	Deaths	7,817	Death Rate per 1000—		26.0
1874	"	"	315,000	"	7 401	"	"	23.50
1875	"	"	325,000	"	7,317	"	"	22 51
1876	"	"	335,000	"	7,382	"	"	22 0
1877	"	"	350,000	"	7,936	"	"	22 67
1878	"	"	365,000	"	6,733	"	"	18.44
1879	"	"	393,796	"	7,618	"	"	19.30

The chief causes of death throughout the year have been (here as elsewhere :)

1st. Consumption, 1,162. 2d. Pneumonia, 509. 3d. Cholera Infantum, 475. 4th. Scarlet Fever, 367. 5th. Diphtheria, 298. 6th. Heart Disease, 252. 7th. Typhoid Fever, 166. 8th. Whooping Cough, 80. 9th. Measles, 43. Total from these causes, 2,902. The balance consisting of other diseases in lesser numbers, as shown by the tables accompanying this report.

Of the total of 7,618 deaths occurring during the past year, 2,066 were under 1 year of age ; 762 between 1 and 2 years of age, and 557 between 2 and 5 years of age, making a total of 3,385 under 5 years.

This is an instructive record, and should teach an important lesson, namely : 1st, that the principal causes of mortality occur before 5 years of age, and 2d, that were said causes more carefully guarded against, this high rate of infant mortality might be greatly diminished, and the general death rate correspondingly decreased.

The following record of longevity is most remarkable : 708 decedents between the ages of 70 and 113 years ; 67 at 70 years; 417 between 70 and 80; 177 between 80 and 90 ; 41 between 90 and 100 ; 5 above 100, and 1 at the extremely advanced age of 113 years—an average of 78 years 7 months. The decedent at 113 years was a white female, and her age well authenticated.

When we add the total under 5 years of age, 3,385, to the aged over 70, 708, we have 4,093, and taken from the whole number, 7,618, leaves but 2,525 for all causes of death between those ages. The importance of hygienic and sanitary measures could not be more clearly demonstrated than by these figures. If there be any purpose in a Health Department, surely it is to preserve the health and save the lives of

the community in which it is established. With ample means, zeal, industry and intelligence, great results may be accomplished.

The so-called Zymotic diseases are all of the preventable class, and may be greatly diminished by improved drainage and attention to sanitary measures. In so far as scarlet fever and diphtheria are concerned, contagion is undoubtedly the chief cause of their prevalence, and until parents and teachers become more alive to the dangers from this source, these fatal maladies will continue to swell the death rate annually. Children should under no circumstances be permitted to attend either public or private schools, or mingle in any way with other children, after an attack of either of these diseases, or when they have been exposed to the contagion, without the sanction of a physician. The return of books used by scarlet fever or diphtheria patients, during their sickness, for use in the schools by themselves or other children, is one of the most certain causes of contagion. All such books should be burned, and any attempt at disinfecting them I regard as the utmost folly.

Small pox has for the past six years been almost banished from our mortuary record, but unless vaccination—the only safeguard against this loathsome disease—be faithfully and universally practiced, it will surely again obtain a foothold, and claim hundreds of victims before its progress can be arrested. Through our most efficient State Vaccine Agent pure Bovine virus can be obtained without cost, and none other should be permitted to be used.

The general sanitary condition of the city has been, during the year, on the whole, satisfactory. The reports of the late and present Assistant Commissioner of Health, herewith appended, show an amount of work done during the year, highly creditable to their zeal and efficient management,

as well as to those who have carried out the work under them.

It is earnestly hoped by your Commissioner of Health that no unnecessary delay will be permitted in the execution of the work of constructing the Harford run sewer, and that the long suffering inhabitants of that section of the city will not have to endure during another summer what they have been so sorely afflicted by in the past. The prevalence of typhoid and scarlet fevers along the whole course of this foul ditch, during the past and former years, should admonish those having the work in charge, that they are incurring a fearful responsibility by any negligence or unnecessary delay.

I have before spoken of the pernicious practice of using hackney coaches for conveying the bodies of children to the grave, (many of whom have died from contagious diseases of one kind or another.) These carriages are used immediately, and without the least attempt at disinfection, by those liable to infection, and I again urge upon your honorable body the necessity for a prohibitory ordinance touching this important subject.

A general system of sewerage with a view to the abolishment of our present privy pit system, is becoming year by year more and more imperatively demanded. I have frequently spoken upon this subject, and again urge that the subject be gravely considered by the present City Council.

Legislation is also necessary for the abatement of nuisances arising from the slaughter houses, both within and without our borders, and I again respectfully suggest the consideration of the establishment of an Abatoir, where such nuisances may be controlled and their evil influences upon the public health reduced to the minimum.

The contract system for the removal of garbage continues to be entirely satisfactory. A reference to the tables attached will show clearly what an enormous nuisance has thereby been abated.

I sincerely trust that the present City Council will enact a similar ordinance in reference to the disposal of night soil. At present those engaged in this necessary work are obliged to seek places of deposit wherever they can find them, and as a consequence are compelled to commit nuisances, which are the cause of frequent complaints, suits at law and injunctions.

I congratulate the citizens of Baltimore upon the passage during the past year of the ordinance controlling the public pump nuisance, and hope the time is not far distant when every one of them will be substituted by a public fountain of pure city water. I have no hesitation in asserting and re-asserting that no more effectual hygienic measure can be adopted than supplying a superabundance of pure water to all classes of our population, especially to the poorer classes, who are unable to escape from the heat of the city, and consequent suffering, during a protracted summer.

The substitution of the Belgian block pavement for the present almost universal cobble stones, is most desirable, for health, comfort and economy.

The expenditures of this Department during the past year have so nearly corresponded with the estimates made at the beginning of the year, that I cannot do better than to report the same estimates, with one or two slight modifications, and herewith append as follows:

Estimate for Expenses for Health Department for the Year 1880.

Street and garbage	$180,000 00
Contract for the removal of garbage	13,500 00
General health	12,000 00
Nuisance and sewers	6,000 00
Salaries	18,000 00
Cleaning cess-pools "Public Schools"	3,500 00
Marine Hospital	15,000 00
Post Mortems	300 00
	$248,300 00

Respectfully submitted,

James A. Steuart, M. D.,
Commissioner of Health.

REPORT OF VITAL STATISTICS.

Returns of Births for the year ending December 31, 1879.

January	630
February	480
March	550
April	480
May	590
June	600
July	640
August	700
September	706
October	667
November	665
December	899
	——7,607

Number of Deaths for the year ending December 31, 1879 7,618

Number of Still Births for the year ending December 31, 1879 620

Unknown Dead Persons for the year ending Dec. 31, 1879.

Unknown men	14
Unknown children	3

Transcripts from the Records of Births for the year ending December 31, 1879.

To obtain Pensions from United States..... 2

Transcripts from the Records of Deaths for the year ending December 31, 1879.

For Life Insurance Policies.....	20
To go to Germany for various purposes	3
" New York "	1
" Ireland "	2
" Lima, Peru "	1
To obtain pensions from United States	16
For claim against United States.....	1
For other purposes	3
	47

F. W. Raborg,
Recorder of Vital Statistics.

TABLES.

TABLE No. 1.

Annual Report of Deaths from all Causes, in the City of Baltimore, for the Year 1879.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Abscess, Head	1												1
" Scrotal	1												1
" Brain		1		1							1		3
" Kidney			1										1
" Ear				1	1								2
" Pelvis				1									1
" Psoas				1	1								2
" Liver					1		1			1	2		5
" Uterus						1							1
" Lumbar							1						1
" Abdominal									1				1
" Lung											1		1
Amputation of Arm	1												1
Anæmia	1	1		1							1	1	5

Aneurism of Aorta	1	1			1				1				4
" Popliteal	1												1
" Heart							1						1
Angina Pectoris	3	1	1		1	1	1			1	1	2	12
Apoplexy	12	7	10	8	10	6	3	7	11	7	8	9	98
Asphyxia	2		1		3	1	3	2		2	1	2	17
Asthma	4	1	4	1	5		1	2	1	1	2	1	23
Asthenia	2	4	5	2	2	3	7	7	2	2	4	1	41
Atelectasis Pulmonum	1				1							1	3
Arachnitis		1							1				2
Albuminuria			1	1	2						3	1	8
Ascites			1			1				1	4	1	8
Atrophy			2	1	1	1	1	3			1	1	11
Amenorrhœa			1										1
Acute Yellow Atrophy of Liver				1									1
Angina					1								1
Adenia					1								1
Addison's Disease					1								1
Adynamia							3				1		4
Abortion								1			1	1	3
Aphasia								1					1
Atelectasis Neonatorum										1			1
Acholia												1	1
Bright's Disease	11	7	15	17	5	15	7	8	7	1	6	12	111
Burns	4	4	5	1	2	4		2	1	1	8	5	37
Bronchial Catarrh					1								1

TABLE No. 1—Continued.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Brornchorrhea	....	....	....	....	....	....	....	....	....	....	....	1	1
Capillary Bronchitis	16	14	23	10	4	4	3	....	3	2	7	5	91
Cancer	1	....	1	1	....	....	....	....	....	....	....	2	5
" Mesentery Gland	1	....	....	....	....	....	....	....	....	....	....	....	1
" Breast	3	1	3	1	2	1	2	3	2	....	1	2	21
" Leg	1	....	....	....	....	..	....	....	....	....	....	....	1
" Ventricular	2	....	....	..	....	1	1	....	1	....	....	....	5
" Uterus	2	1	1	1	1	6	3	6	2	3	5	3	34
" Stomach	6	2	2	2	4	3	2	4	....	3	9	....	37
" Abdomen	....	1	....	....	....	....	....	....	....	....	....	....	1
" Face	....	1	1	....	1	....	2	....	1	3	..	....	9
" Tonsils	....	1	....	....	....	....	....	....	....	....	....	....	1
" Neck	....	....	1	....	....	....	....	....	....	....	..	1	2
" Tongue	....	....	1	....	....	1	....	....	1	....	1	....	4
" Liver	....	....	1	....	1	1	2	....	3	1	2	....	11
" Eye	....	....	....	1	....	....	....	....	....	....	....	....	1
" Penis	....	....	....	1	....	....	....	....	....	....	....	....	1
" Œsopagus	....	....	....	....	1	....	....	....	....	....	....	....	1
" Peritoneum	....	....	....	....	1	....	....	....	....	....	....	....	1

" Palate					1								1
" Lower Jaw					1								1
" Rectum					1		1						2
" Axilla						1							1
" Bladder						1							1
" Pylorus						1	1						2
" Parotid Gland							1						1
" Medullary							1						1
" Omentum									1				1
" Pyloric Gland										1			1
" Pancreas											1		1
" Prostrate Gland												1	1
Catarrh	2					1			1	1			5
Child Birth	2	3		2				3	1	3	2		16
Cirrhosis of Liver	2			4	4			1	2			2	15
Concussion of Brain	2					6		1		1			10
Congestion of Brain	6	5	6	8	3		5	10	7	2	8	5	65
" Lungs	12	7	8	3	1	2	2		4	3	5	4	51
" Liver		1				1	1	2	1	1			7
" Spinal Cord		1											1
" Stomach								1					1
" Bowels												1	1
Consumption of Bowels	1							1			1		3
" Lungs	88	109	123	99	128	76	78	100	89	71	108	93	1162
Convulsions	24	20	28	29	28	26	36	30	22	35	24	21	323
" Puerperal	2	1	2	1		2	2	1		1	2		14
Croup	17	21	24	13	8	6	4	1	6	15	43	28	186

TABLE No 1—Continued.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cyanosis	1	2	2	2	2	1	1	2	4	2	....	1	20
Coxalgia	2	....	....	....	....	....	....	1	....	....	....	....	3
Cardiac Neuralgia	1	....	....	....	....	....	....	....	....	....	....	....	1
Casualties	....	2	....	....	2	....	2	2	1	1	4	1	15
Carbuncle	....	....	1	....	....	....	....	....	....	....	....	....	1
Cholera Morbus	....	....	....	1	2	4	6	4	1	....	....	....	18
Cholera Infantum	....	....	....	....	1	121	197	112	26	15	3	....	475
Cholera Sporatic	....	....	....	....	....	2	....	....	....	....	....	....	2
Collapse	....	....	....	....	....	1	....	....	....	....	....	....	1
Cachexia	....	....	....	....	....	1	....	....	....	....	....	....	1
Colitis	....	....	....	....	....	3	....	....	....	....	....	....	3
Cancrum Oris	....	....	....	....	....	1	....	....	1	....	....	....	2
Cholehæmia	....	....	....	....	....	....	....	1	....	....	....	....	1
Congestive Chill	....	....	....	....	....	....	....	....	....	2	1	1	4
Colic	....	....	....	....	....	....	....	....	....	....	1	....	1
Compression of Brain	....	....	....	....	....	....	....	....	....	....	1	....	1
Cerebral Embolism	....	....	....	....	....	....	....	....	....	....	1	....	1
Cholesteræmia	....	....	....	....	....	....	....	....	....	....	....	1	1
Disease of Heart	27	18	34	20	23	15	18	16	13	15	28	25	252

" Complicated			1										1
" of Spine				1	3		1			1		1	7
" Hip						1	1						2
" Brain						2	2	2		1	1		8
" Liver						1		1					2
" Stomach									1				1
Dropsy, General	4	3	10	4	8	8	9	5	6	7	9	4	77
" Scarlatinal	1												1
" Heart			1		1		1			1			4
" Ovarian				1									1
Dentition	5	3	5	4	6	8	16	26	9	6	7	3	98
Diabetes	1	1		1	2					1			6
Diphtheria	27	23	21	11	26	19	5	14	29	50	35	38	298
Drowned		3	3	8	3	6	8	10	4	4	2		51
Delirium Tremens		3		1	1								5
Diarrhœa		1	1	6	2	18	26	13	7	3	2	2	81
Dysentery			1		1	11	17	14	6	8	2		60
Dorsalis						1							1
Dipsomania									1				1
Dyspepsia												1	1
Entero Colitis	1					6	8	3	1	2	1		22
Epilepsy	1		2	3	2		1	1		1		3	14
Erysipelas	2	4	6	2	3		2	1	2	1	5	1	29
Exposure	3												3
Endocarditis					1			2			3	1	7
Enlarged Liver						1		1					2
Exhaustion							1	1					2

TABLE No. 1—Continued.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Total.
Elephantiasis	....	....	....	....	....	....	....	1	....	....	....	....	1
Epistaxis	....	....	....	....	....	....	....	....	1	....	....	....	1
Embolism	....	....	....	....	....	....	....	....	....	1	....	1	2
Emphysema	....	....	..	....	....	....	....	....	....	....	1	....	1
Empyema	....	....	....	....	....	....	....	....	....	....	1	....	1
Excessive Obesity	....	....	....	....	....	....	....	....	....	....	1	....	1
Fever, Congestive	....	....	1	....	....	....	....	....	....	....	....	....	1
" Catarrh	....	4	1	2	1	1	2	1	....	1	....	....	13
" Bilious	....	....	....	..	1	....	2	1	2	1	...	....	7
" Enteric	1	....	....	....	....	....	....	....	....	....	....	....	1
" Malarial	2	1	2	...	....	....	3	1	1	3	1	....	14
" Peuperal	1	....	2	3	2	1	1	....	....	1	1	....	12
" Remittent	1	....	1	3	2	....	2	4	5	....	2	2	22
" Scarlet	12	18	27	21	32	27	34	35	32	33	47	49	367
" Typhoid	9	13	8	9	5	4	7	23	27	20	25	16	166
" Cerebro Spinal	....	1	....	....	....	....	....	....	....	....	....	....	1
" Gastric	....	1	....	....	1	....	1	1	....	2	....	....	6
" Intermittent	....	....	1	....	....	4	....	3	2	2	....	....	12
" Relapsing	....	....	1	....	....	....	....	....	....	....	....	....	1

Fever, Nervous				1									1
" Hectic						1							1
" Typho Malarial								2	5	2	7	1	17
" Typhus											1		1
Fistula in Ano			1	1		1							3
Fracture of Femur		2		1	1								4
" Skull		1		3	2	1	2	1		1	1		12
" Spine							1						1
Fibrocystic Tumor of Abdomen							1						1
Fall							1						1
Fibrous Degeneration of Kidneys									1				1
Fracture of Vertebre												2	2
Gangrene of Lungs	2										1		3
" Abdomen		1											1
" Senile			1		1	1	1	1				2	7
" of Scrotum						1							1
" Angina						1							1
Gastro Enteritis	1	1	1	4	3	7	5	8	5	2	5		42
" Catarrh		1		2				1				1	5
" Intestinal do								2				1	3
General Debility				2		3							5
Gout						1	1	1					3
Gall Stone						1							1
Glioma												1	1
Hemorrhage of Lungs	2	1	2	2	2			5				1	15

TABLE No. 1—Continued.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Hemorrhage of Uterus	1				1				1				3
" Nose		1											1
" Brain		2		1		1			2		1	2	9
" Secondary						1							1
" Internal							2						2
" Umbilical								1				3	4
" of Bowels									2				2
" of Stomach										1			1
" Post Partem												1	1
Hydrocephalus	2	2	2	4	2	6	5	3	5	4	1	3	39
Hydrometra	1												1
Hernia, Incarcerated Abdominal		1											1
Hernia, Umbilical		1				2		1					4
Hernia			1										1
" Strangulated					1	2			1		1	2	7
Hæmoptysis		1						1				1	3
Hydrothorax				1			1					1	3
Hypertrophy of Prostrate						1							1

Hydrencephaloid							1						1
Hæmorrhagica							1						1
Haematemesis										1			1
Inanition	11	9	7	9	6	18	23	18	13	5	9	15	143
Indigestion	1				1					1			3
Insanity	1		1	1	1	1	1			1		2	9
Inflammation of Brain	3	2		2	2	2		1		3	4	1	20
" Bowels	3	1	3		3	9	10	5	2	2	2		40
" Stomach	1	3	1	2	3	5	2	3	3	4	4	1	32
" Bronchi	13	9	14	7	9	2	5	4	5	7	10	7	92
" Heart	1												1
" Kidneys	2		1		2	3	2	1			3	2	16
" Larynx	6	4	2	1		1				1	4		19
" Liver	2	1	2			1	7	2					15
" Pericardium	1	1	2	3	1			5				1	14
" Peritoneum	2	1	3	5	4	4	2	2	1	3	2	3	32
" Pleura	1		2	1	1			1			3	1	10
" Uterus		1		1									2
" Bladder				1		2			1	2	1		7
" Ovary				1									1
" Tonsils					1						1		2
Intemperance	2	2			3	3	2	2		1	2	4	21
Injuries	1												1
Intussusception	2	1								2	1	1	7
Insanity Puerperal	1	1								1			3
Influenza		1											1
Infanticide				1	1								2

TABLE No. 1—Continued.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Insolation	....	....	....	....	....	....	2	....	....	....	....	....	2
Intestinal Catarrh	....	....	....	....	1	....	....	....	....	....	4	1	6
Ischuria Renalis	....	....	....	....	1	1	....	3	....	....	....	....	5
Instrumental Labor	....	....	....	....	....	....	....	....	....	....	1	....	1
Icterus Neonatorum	....	....	....	....	....	....	....	....	....	....	....	1	1
Jaundice	....	....	3	....	....	1	....	1	1	3	1	1	11
Leucocythæmia	1	....	....	1	....	....	....	1	....	....	....	....	3
Laryngeal Tuberculosis	....	....	1	....	....	....	....	....	....	....	....	....	1
Malformation	1	....	1	....	2	2	....	2	3	....	4	1	16
Marasmus	11	8	25	16	6	18	27	26	22	14	15	15	203
Measles	2	3	3	7	5	8	9	3	1	2	....	....	43
Meningitis	4	11	8	13	9	14	21	19	9	3	9	7	127
" Tubercular	12	6	8	4	9	5	3	7	3	7	7	7	78
" Cerebro Spinal	1	3	5	2	3	3	4	9	3	3	1	....	37
Mumps	1	....	....	....	....	....	....	....	....	....	....	....	1
Murder	....	1	....	....	....	1	....	1	....	....	1	....	4
Monstrosity	....	1	....	....	....	....	....	....	....	....	....	....	1
Mal-nutrition	....	2	....	3	5	6	17	11	11	3	1	....	59
Myelitis	....	....	1	1	1	....	....	....	....	....	....	....	3

Metro Peritonitis	....	....	....	....	1	....	....	....	1	....	....	....	2
Malarial Toxæmia	....	....	....	....	....	....	....	....	1	....	....	....	1
Malignant Disease of Throat.	....	....	....	....	....	....	....	....	....	....	1	....	1
Non Viable.	....	....	2	....	....	....	....	....	....	....	....	1	3
Necrosis	....	....	....	1	....	....	....	1	1	....	....	....	3
Neuralgia	....	....	....	....	2	....	....	....	....	....	....	....	2
Nervous Exhaustion	....	....	....	....	....	1	....	....	....	....	....	....	1
Old Age	36	29	29	26	10	16	17	17	15	18	28	14	255
Oedema Glottidis	1	....	....	....	....	....	....	....	....	....	....	....	1
" of Lungs	....	....	..	....	1	....	....	1	1	....	2	....	5
Ovariotomy	....	1	....	....	....	....	....	....	....	....	....	....	1
Osteo Sarcoma	....	....	....	1	....	....	1	....	....	....	....	....	2
Oedema of Brain	....	....	....	....	....	....	....	....	....	....	....	1	1
Puerperal Metritis	1	2	....	....	....	....	....	....	....	....	1	....	4
" Septicæmia	....	....	....	1	....	....	....	....	....	....	....	....	1
Paralysis	6	15	19	7	7	11	10	11	14	10	14	14	138
Pneumonia	76	69	86	49	30	19	14	12	16	17	30	32	450
" Typhoid	6	5	11	3	1	....	....	1	1	4	2	4	38
" Pleuro	1	2	5	2	....	1	2	...	....	....	2	2	17
" Broncho	....	....	1	2	....	....	....	....	....	....	....	1	4
Premature Birth	11	11	10	5	14	16	12	15	11	14	11	10	140
Phthisis Laryngeal	1	1	....	....	....	....	....	....	....	....	....	....	2
Pyæmia	2	2	2	....	1	....	2	...	....	2	1	3	15
Prostatitis	1	....	1	....	....	....	....	....	....	....	....	....	2
Protracted Labor	3	....	....	....	....	1	....	1	....	....	....	....	5
Placenta Prævia	1	....	....	....	....	....	....	....	....	....	....	....	1
Paralysis of Bladder	1	....	....	....	....	....	....	....	....	....	....	....	1

TABLE No 1—Continued.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Progressive Locomotor Ataxia	....	1	....	....	....	....	....	1	....	....	....	....	2
Phlegmon Parotiditis	....	....	1	....	....	....	....	....	....	....	....	....	1
Poison	....	....	....	1	....	1	1	2	2	....	....	....	7
Pyelonephritis	....	....	....	1	....	....	....	....	....	....	....	....	1
Parotitis	....	....	....	1	....	....	....	....	....	....	....	....	1
Phlebitis	....	....	....	....	1	....	....	....	....	....	....	....	1
Polypus of Antrum	....	....	....	....	....	1	....	....	....	....	....	....	1
Pott's Disease	....	....	....	....	....	1	....	....	....	....	....	....	1
Purpura	....	....	....	....	....	....	1	....	....	....	....	1	2
Pregnancy	....	....	....	....	....	....	....	....	....	2	....	....	2
Pressure of Brain	....	....	....	....	....	....	....	....	....	....	....	1	1
Rheumatism, Inflammatory	6	2	7	....	1	2	....	1	....	4	2	3	28
Rheumatism of Heart	....	....	1	....	....	1	....	....	....	....	1	1	4
Rickets	1	....	....	....	....	....	....	....	....	....	....	....	1
Rupture of Uterus	....	1	....	....	....	....	....	....	....	....	....	....	1
" of an Aneurism	....	....	....	....	....	....	....	....	....	1	....	....	1
Scalds	3	2	....	1	....	....	....	1	....	1	....	....	8
Scrofula	1	7	5	7	....	3	1	5	4	2	5	1	41
Softening of Brain	2	3	1	1	2	4	3	7	3	2	3	4	35

Softening of Spinal Cord				1									1
Stricture of Intestines	1		1			2					1		5
" of Œsophagus				1									1
Suicide	1	2		1	2	1	3	1	2		2		15
Syphilis	1		7		4	2	2	1	1	1	2		21
Suppression of Menses	1												1
Spinal Congestion	1												1
Septicæmia		2			1	1	2		1	3	1		11
Senile Catarrh		1					1					2	4
Strangulation				1									1
Spina Bifida					1								1
Shock							1						1
Sun Stroke							1	2					3
Sciatica								1					1
Syphilitic Disease of Brain										1			1
Syncope												2	2
Tabes Mesenterica	1			1		2	1	1	1		1		8
Trismus Nacentium	4	5	1	1		2	5	4	3	5	4	1	35
Tetanus		2					2			1	1		6
Tumor Ovarian	2	2	1							1	4	1	11
" Abdominal			1				1	2					4
" of Uterus										1			1
Tubercular Laryngitis	1												1
Tuberculosis of the Mesenteric Glands					1								1
Trachitis						1							1
Traumatic Delirium									1				1

TABLE No. 1—Continued.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Typhlitis											1		1
Ulcer of Stomach	1		1	1									3
" Bladder			1										1
" Leg			1										1
" Chronic			1										1
" Bowels												1	1
Uræmia	1		2			3		2	1	1	2		12
Unknown Adult	2		1				1	2		1	1	5	13
" Infantile	6	4	5	3	2	3	3	4	3	2	4	3	42
Urinary Infiltration						1							1
Varicose Vein				1									1
Variola						1							1
Venous Thrombosis of Pulmonary Artery						1							1
Varicella												1	1
Whooping Cough	3	6	5	5	2	4	10	10	13	10	5	7	80
Wounds	1	1	1	2	1	1	2	4	7	1	2		23
" Gun Shot	1						1			1			3
" Pistol Shot			1	1									2

" R. R. Torpedo									1				1
Worms												1	1
Totals	621	583	716	548	541	685	810	763	557	534	691	569	7,618

A. R. CARTER, *Secretary.*

TABLE No. 1—Continued.

AGES.	January.	Feb'ary.	March.	April.	May.	June.	July.	August.	Sept'ber.	October.	Nov'ber.	Dec'ber.	Total.
Under 1 year	139	127	168	105	113	267	378	265	145	129	110	120	2,066
Between 1 and 2 years	52	48	71	50	40	70	76	102	54	77	80	42	762
" 2 and 5 "	38	42	51	44	38	35	42	51	44	47	58	67	557
Total under 5 years	229	217	290	199	191	372	496	418	243	253	248	229	3,385
Between 5 and 10 years	28	53	43	34	45	44	37	41	54	55	75	49	558
" 10 and 15 "	14	8	13	14	12	15	10	14	7	9	13	12	141
" 15 and 20 "	23	15	23	11	19	12	17	26	14	13	22	11	206
" 20 and 30 "	49	55	60	69	51	44	43	54	55	41	61	62	644
" 30 and 40 "	53	42	57	44	55	39	37	59	36	35	58	44	559
" 40 and 50 "	38	49	49	43	54	37	35	36	35	30	49	34	489
" 50 and 60 "	48	35	47	30	38	39	46	35	29	29	38	29	443
" 60 and 70 "	53	45	58	52	46	37	41	34	44	26	51	47	534
" 70 and 80 "	46	46	53	37	18	31	38	29	27	26	49	35	435
" 80 and 90 "	28	17	14	10	9	12	10	13	10	14	23	15	175
" 90 and 100 "	10	1	8	5	3	3	....	3	2	2	4	2	43
" 100 and 110 "	1	....	1	....	....	....	....	1	1	1	....	....	5
Above 110 years	1	....	....	....	....	....	....	....	....	....	....	....	1
Totals	621	583	716	548	541	685	810	763	557	534	691	569	7,618

NATIVITY.													
United States—White	363	348	401	347	323	457	529	514	362	341	421	348	4,754
" " Colored	147	126	190	117	132	144	188	165	122	122	149	133	1,735
Foreign	111	109	125	84	86	84	93	84	73	71	121	88	1,129
Totals	621	583	716	548	541	685	810	763	557	534	691	569	7,618
White Males	221	230	268	209	199	277	336	303	222	210	263	232	2,970
White Females	253	227	258	222	210	264	286	295	213	202	279	204	2,913
Colored Males	70	60	86	55	63	82	94	90	64	62	59	66	851
Colored Females	77	66	104	62	69	62	94	75	58	60	90	67	884
Totals	621	583	716	548	541	685	810	763	557	534	691	569	7,618
Still Births	50	52	60	49	58	50	56	54	48	36	62	45	620
Marriages	227	234	219	259	273	253	166	195	224	273	302	332	2,957
Births	630	480	550	480	590	600	640	700	706	667	665	907	7,615

TABLE No. 1—Concluded. *Total Number of Deaths Monthly in each Ward.*

WARDS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
First	43	51	45	36	41	56	64	65	42	34	57	44	578
Second	25	22	25	21	20	15	33	44	22	23	28	16	294
Third	33	26	31	15	19	34	33	28	23	16	30	25	313
Fourth	17	14	13	13	9	23	27	19	13	13	29	12	202
Fifth	36	20	44	23	19	26	32	17	22	21	31	22	307
Sixth	29	36	36	26	22	33	49	52	44	32	37	37	433
Seventh	52	55	66	56	47	49	55	51	38	47	58	45	619
Eighth	25	31	23	24	20	25	31	31	20	24	26	26	306
Ninth	27	9	18	21	13	26	27	23	19	10	25	14	232
Tenth	22	12	32	26	19	16	20	19	14	19	24	13	230
Eleventh	23	19	20	15	12	11	18	17	10	12	12	13	182
Twelfth	18	32	38	25	20	26	17	22	16	19	21	16	270
Thirteenth	21	7	20	16	13	14	23	32	18	20	13	23	220
Fourteenth	19	21	26	14	19	25	25	23	23	19	26	18	258
Fifteenth	31	20	34	19	36	51	50	45	31	25	34	32	408
Sixteenth	24	33	37	26	36	38	48	52	27	42	38	44	445
Seventeenth	30	31	49	35	33	48	65	57	32	32	32	32	476

Eighteenth	41	44	50	42	43	56	81	63	46	57	67	63	653
Nineteenth	53	63	51	49	64	71	61	65	52	41	51	35	656
Twentieth	58	37	58	52	36	42	51	38	45	28	52	39	536
Totals	621	583	716	548	541	685	810	763	557	535	691	569	7,618

A. R. CARTER, *Secretary.*

TABLE No. 2—*Total Deaths from all Causes, of Childern under Five Years of Age in the City of Baltimore during the Year* 1879.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Asthenia	1	1	2	1	2	3	7	5	2	2	3	1	30
Asphyxia	1	....	1	1	3	1	1	2	....	2	1	....	13
Atelectasis Pulmonum	1	....	....	....	1	....	....	....	....	....	....	....	2
Abscess of Brain	1	1	....	1	....	....	....	..	....	....	1	....	4
" Aural	....	....	....	1	....	....	....	....	....	....	....	....	1
Atrophy	....	....	2	1	1	....	....	3	....	....	1	1	9
Albuminuria	....	....	....	....	1	....	....	....	....	....	1	....	2
Adynamia	....	....	....	....	....	....	3	....	....	....	....	....	3
Atelectasis Neonatorum	....	....	....	....	....	....	....	....	....	1	....	....	1
Anæmia	....	....	....	....	....	....	....	....	....	....	2	....	2
Bronchitis	10	6	9	1	5	1	1	2	....	4	3	5	47
" Capillary	11	16	21	10	3	1	2	..	2	2	7	4	73
Bright's Disease	....	....	....	..	....	1	....	....	....	....	....	....	1
Burns and Scalds	4	5	2	....	....	1	....	....	....	1	3	2	18
Cerebro Spinal Meningitis	....	2	3	....	1	1	2	8	1	3	1	....	22
Convulsions	22	20	27	27	25	25	34	30	21	33	24	21	309
Congestion of Brain	1	2	1	1	2	6	2	10	5	2	3	1	36
" Lungs	4	3	6	1	....	1	1	1	1	2	2	....	22
" Stomach	....	....	....	....	....	....	....	1	....	....	....	....	1

Consumption of Lungs	8	9	10	10	10	7	9	11	5	8	2	5	100
" Bowels								1					1
Congestive Chill										2			2
Cystitis										1			1
Catarrh									1	1		1	3
Cancrum Oris						1			1				2
Cachexia						1							1
Collapse						1							1
Crushed			1										1
Cholera Infantum					1	121	198	112	27	15	3		477
Croup	12	14	20	12	7	3	3	1	5	10	25	25	137
Concussion of Brain	2												2
Compression of Brain											1		1
Cyanosis		2	2	2	2	1	1	1	3	2		1	17
Diphtheria	15	14	13	8	14	10	5	7	15	24	21	28	174
Diarrhœa		1		4	1	16	19	9	4	1	1	2	58
Dentition	4	3	5	3	6	8	16	26	9	6	7	2	95
Dropsy			1			5		1		1		1	9
Dysentery					1	6	9	8	1	5			30
Drowning							1	1	1				3
Disease of Brain										2	4	1	7
" Heart				1	1							1	3
" Spine				1	1								2
Entero Colitis	1					7	7	3	1	2	1		22
Enteritis	1		1			8	4	2	1	2	1		20
Exposure	2												2
Endocarditis											1		1

TABLE No 2—Continued.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Erysipelas	....	2	1	2	2	....	....	....	1	1	2	....	11
Fever, Bilious	....	....	....	....	....	....	1	....	....	1	....	....	2
" Intermittent	....	....	....	....	....	....	....	2	....	....	1	....	3
" Remittent	1	....	1	1	1	....	....	1	3	1	1	....	10
" Typhoid	2	2	....	1	....	....	....	....	1	1	1	1	9
" Malarial	1	....	1	....	....	....	2	....	....	....	1	....	5
" Catarrh	2	4	1	2	2	1	2	1	....	1	....	....	16
" Gastric	....	....	....	....	1	....	1	1	....	2	....	....	5
" Scarlet	8	10	16	10	16	16	22	20	15	22	21	26	202
Gangrene of Lungs	1	....	....	....	....	....	....	....	....	....	....	....	1
" Scrotum	....	....	....	....	....	1	....	....	....	....	....	....	1
Gastritis	....	3	1	....	1	1	....	....	2	1	1	....	10
Gastro Enteritis	2	1	1	1	1	4	4	6	4	2	4	....	30
Gastric Catarrh	....	1	....	....	....	....	....	1	....	....	....	1	3
Hydrocephalus	1	2	2	4	1	6	4	2	5	4	1	3	35
Hemorrhage	1	1	....	....	....	1	....	1	1	1	....	4	10
Hernia	....	1	....	....	....	2	....	1	....	....	....	....	4
Hepatitis	....	....	....	....	....	....	1	....	....	....	....	....	1
Hydrencephaloid	....	....	....	....	....	....	1	....	....	....	....	....	1

Inanition	11	9	6	9	5	14	22	18	12	5	9	15	135
Infanticide				1	1								2
Indigestion					1					1			2
Insolation							1						1
Intussusception										1	1		2
Instrumental Labor											1		1
Intestinal Catarrh											3	1	4
Icterus Neonatorum												1	1
Jaundice			1						1			1	3
Laryngitis	5	2	1			1					4		13
Measles	5	3	3	5	5	6	6	3	1	2			39
Meningitis	2	10	7	5	6	13	18	14	9	2	7	5	98
" Tubercular	9	5	8	4	8	4	2	7	1	7	3	7	65
Malformation	1		1	2	2		2	3		4		1	16
Marasmus	10	8	21	16	6	16	25	26	22	14	15	13	192
Mumps	1												1
Monstrosity		1											1
Mal-nutrition		1		3	5	6	17	11	11	2	1		57
Myelitis				1									1
Nephritis	1					1	1						3
Necrosis;								1					1
Non Viable			2									1	3
Oedema of Lungs									1		1		2
Poison by Opium				1					1	1			3
" Creosote							1						1
Pneumonia	35	24	56	28	11	10	7	10	9	10	14	15	229
Pneumonia Typhoid		2	3		1	1				2	1		9

TABLE No. 2—Concluded.

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Premature Birth	11	11	10	5	14	16	12	15	11	14	11	10	140
Protracted Labor	3	....	...	....	....	1	....	1	....	....	....	....	5
Pyæmia	....	1	....	....	....	....	....	....	....	....	....	1	2
Phlegmon Parotiditis	....	....	1	....	....	....	....	....	....	....	....	....	1
Pleuritis	....	....	....	1	....	....	....	1	...	....	....	....	2
Paralysis	....	....	....	....	....	....	....	1	1	....	....	....	2
Pericarditis	....	....	....	..	....	....	....	1	....	....	....	....	1
Peritonitis	....	....	....	....	....	....	....	1	...	....	....	....	1
Pressure of Brain	....	....	....	....	....	....	....	....	....	....	....	1	1
Purpura	...	....	....	....	....	....	....	....	....	....	....	1	1
Rickets	1	....	....	....	....	....	....	....	....	....	....	....	1
Rheumatism	....	....	....	....	....	....	....	....	....	1	....	....	1
Syphilis	....	.	6	....	3	2	1	....	....	....	2	....	14
Scrofula	....	5	4	3	....	2	....	3	4	1	4	1	27
Spina Bifida	....	....	....	....	1	....	....	....	....	....	..	....	1
Stomatitis	....	....	....	....	....	....	....	2	....	....	...	....	2
Septicæmia	....	....	....	....	....	....	....	....	....	1	....	1	2
Stricture of Intestines	1	....	....	....	....	....	....	....	....	....	....	....	1
Trismus Nacentium	4	5	1	1	....	2	5	4	1	5	4	1	33

Tetanus	....	1	....	....	....	....	....	....	....	....	1	2	4
Tabes Mesenterica	....	....	....	1	....	....	1	1	2	....	1	....	6
Unknown Infantile	6	3	4	3	1	4	4	4	3	2	4	6	44
Uræmia	....	....	2	....	....	....	....	....	....	....	....	1	3
Varicella	....	....	....	....	....	....	....	....	....	....	....	1	1
Whooping Cough	3	6	4	5	2	3	10	10	12	10	5	6	76
Totals	229	217	290	199	191	372	496	418	243	253	248	229	3,385

A. R. CARTER, *Secretary.*

TABLE No. 3.

Comparative statement of Deaths in the City of Baltimore from Scarlet and Malarial Fevers during the months of July and August, from 1872 to 1879 inclusive; also the mean, maximum and minimum temperatures.

Fevers.	1872.		1873.		1874.		1875.		1876.		1877.		1878.		1879.	
	July.	August.	July.	August.	July.	August.	July.	August.	July.	August.	July.	August.	July.	August.	July.	August.
Scarlet	3	7	9	5	9	14	43	29	21	31	26	22	11	19	34	35
Typhoid	17	21	15	29	13	28	10	19	20	39	16	30	20	19	7	20
Intermittent	5	5	4	4	2	3	2	1	2	4	....	....	....	3	....	....
Remittent	...	...	...	...	...	...	1	4	1	7	3	....	2	3	2	3
Bilious	2	14	6	5	5	6	....	...	....	....	....	....	1	1	2	1
Congestive	3	2	1	3	....	2	....	2	....	...	...	....	1	....	....	....
Malarial	....	....	....	.	....	....	....	....	....	....	....	....	2	2	3	....
Typho Malarial	....	....	....	..	....	....	....	....	....	....	...	....	....	....	....	3
Temperatures:																
Mean	81^{2}	79^{3}	79	76^{3}	77^{3}	72^{8}	78	73^{4}	80^{4}	75^{9}	78^{2}	77^{6}	80^{8}	76	78^{6}	76^{3}
Maximum	97	95	96^{4}_{5}	94	95^{5}	97	96^{5}	88	99	90	93	94	98	92^{8}	99	92
Minimum	73	62	62	57	62^{5}	52	61^{5}	58	59	55	64	63	65	59	60	56

A. R. CARTER, Secretary.

TABLE No. 4.

Meteorological Summary for the year 1879, *Baltimore, Md.*

PRESSURE.

Mean Barometer			30.096 inches.
Highest	"	(October 26th)	30.845 "
Lowest	"	(January 9th)	29.347 "
Range of	"		1.498 "

TEMPERATURE.

Mean Thermometer			55°.9
Highest	"	(July 16th)	99°.0
Lowest	"	(January 3d)	Zero
Range of	"		99°
Mean Spring Temperature			53°.9
" Summer	"		76°.2
" Autumn	"		58°.1
" Winter	"	(1878 to 1879)	33°.5

RAINFALL.

Rain and snow fell on 159 days, measuring 36.01 inches—a deficiency of 14.08 inches compared with 1878.

WIND.

Prevailing direction of wind, northwest.
Highest velocity of wind, 60 miles per hour—April.
Mean velocity of wind, 6 miles per hour.
Total velocity of wind, 52,265 miles.

HUMIDITY, ETC.

Mean Humidity, 65.3 per cent.
First ice and frost, October 24th.

ROBERT SEYBOTH,
Sergeant Signal Corps, U. S. A.

Comparative Statement of Deaths and Births for five years.

Year.	Deaths.	Births.
1875	7317	8476
1876	7382	7575
1877	7936	7759
1878	6733	6060
1879	7618	7615

TABLE No. 5.

Report of Vaccine Physicians from January 1st, 1879, to December 31st, 1879—Twelve Months.

Wards.	Names of Physicians.	Residence.	Number of Calls.	Number of Vaccinations.	Primary.	Secondary.	Successful.	Failed.	Not heard from.	Males.	Females.	White.	Colored.	Re-Vaccinated.
1st and 2d	J. F. McShane.	68 South Broadway.....	1,930	297	297	...	206	14	77	135	162	279	18	7
	J. M. Sullivan.	116 Thames street.....												
3d " 4th	C. M. Morfit....	67 East Baltimore street.	2,550	54	49	5	45	9	...	26	28	43	11	..
5th " 6th	E. George Walls.	27 North Broadway....	1,443	272	266	6	268	4	...	187	85	183	89	..
7th " 8th	E. Hall Rutledge.	151 Aisquith street.....	2,133	504	484	20	364	56	84	249	255	433	71	56
9th "10th	J. H. Scarff.....	4 Cathedral street.....	681	118	97	21	88	12	18	44	74	65	53	..
11th "12th	J. R. Page	220 Linden avenue.....	1,954	121	96	25	86	15	20	67	54	49	72	..
13th "14th	B. F. Phillips ...	319 West Lombard street.	2,081	137	108	29	97	30	10	52	85	42	95	..
15th "16th	S. A. Bell.....	161 South Sharp street...	1,643	177	176	1	84	21	72	92	85	108	69	..
17th "18th	James Bosley...	319 Hollins street	1,620	268	265	3	212	8	48	146	122	244	24	3
19th "20th	Silas Baldwin...	152 West Townsend St..	1,809	258	153	85	63	33	142	114	124	111	127	..
			17,844	2,186	1,991	195	1,513	202	471	1,112	1,074	1,557	629	66

1st and 2d Wards—151 Certificates of Vaccination given by Drs. McShane and Sullivan.

TABLE No. 6.

Salary Account for Twelve Months ending December 31, 1879.

To 13 Checks on Comptroller....	$17,700 00	By 1	voucher,	Jan'y 1, 1879	$1,175 06
		" 1	"	Feb. 1, "	1,174 97
		" 1	"	March 1, "	2,074 97
		" 1	"	April 1, "	1,174 97
		" 1	"	May 1, "	1,175 06
		" 1	"	" 31, "	2,074 97
		" 1	"	July 1, "	1,174 97
		" 1	"	August 1, "	1,174 97
		" 1	"	Sept. 1, "	2,075 06
		" 1	"	Oct. 1, "	1,174 97
		" 1	"	Nov. 1, "	1,174 97
		" "	"	" 25, "	89 10
		" 1	"	Dec. 1, "	1,985 96
13 Checks on Comptroller....	$17,700 00	13 vouchers for 12 months....			$17,700 00

A. R. CARTER, *Sec'y.*

TABLE No. 7.

General Health Account for Twelve Months ending December 31st, 1879.

To 276 Checks on Comptroller.	$15,397 45	By	cleaning cesspools Public Schools	$2,497	45
		"	Coffins	1,587	55
		"	Interments	857	20
		"	Sanitary Inspectors	5,092	26
		"	Sanitary Physicians	2,025	00
		"	Lime and disinfectants	1,109	05
		"	Printing reports and binding books	344	28
		"	Files, circulars, pencils and directories	131	50
		"	Head Boards	40	00
		"	Removing fish and filth from Basin	248	75
		"	Car fare	12	50
		"	Abating nuisances	155	41

		" Tolls	$17 00
		" Advertising	316 49
		" Livery, horse-shoeing and repairs	304 85
		" Book-Chests and cabinet	43 00
		" Garbage checks	7 00
		" Demijohns and vials	18 00
		" Materials for analysis of water	150 00
		" Postage stamps, postage and cards	189 90
		" Telephone	40 00
		" Straps and badges	52 50
		" Post Mortems	75 00
		" Sundries	82 76
To 276 Checks on Comptroller.	$15,397 45	December 31, 1879—12 months.	$15,397 75

A. R. CARTER, *Sec'y.*

TABLE No. 8.

Nuisance and Sewer Account for Twelve Months ending December 31, 1879.

To	12	Checks on Comptroller...	$1,500 00	By	12	vouchers, P. Mullen.....	$1,500 00
"	12	" " ...	1,500 00	"	12	" F. A. Kerchner.....	1,500 00
"	12	" " ...	600 00	"	12	" J. W. Lee.....	600 00
"	12	" " ...	600 00	"	12	" H. Paff.....	600 00
"	4	" " ...	143 93	"	4	" paving alleys.....	143 93
"	12	" " ...	281 31	"	12	" wagon and repairs..	281 31
"	1	" " ...	30 00	"	1	" S. J. Martinet.....	30 00
"	1	" " ...	16 00	"	1	" windlass	16 00
"	4	" " ...	155 25	"	4	" refuse from docks...	155 25
"	1	" " ...	2 00	"	1	" lamp for sewers.....	2 00
"	1	" " ...	12 58	"	1	" copperas.....	12 58
"	1	" " ...	2 50	"	1	" draining lot.....	2 50
"	1	" " ...	1 25	"	1	" Bibb.....	1 25
"	1	" " ...	55 00	"	1	" W. P. Tonry.....	55 00
"	1	" " ...	10 00	"	1	" stamps	10 00
				"	4	" work on Chatsworth Run Sewer.....	142 86
"	4	" " ...	142 86				
				"	6	" work on Schroeder's Run Sewer...	402 60
"	6	" " ...	402 60				
				"	1	" work on Vine Street Sewer.....	57 60
"	1	" " ...	57 60				

"	3	"	" ...	176 09	"	3	"	work on Druid Hill Avenue Sewer.....	176 09
"	7	"	" ...	351 55	"	7	"	work on Old Druid Hill Avenue Sewer	351 55
"	1	"	" ...	62 22	"	1	"	work on McMechen Street Sewer.....	62 22
"	1	"	" ...	32 09	"	1	"	work on Bath Street Sewer...	32 09
"	1	"	" ...	22 50	"	1	"	work on Stony Run Sewer.....	22 50
"	1	"	" ...	12 00	"	1	"	work on Eager Street Sewer..	12 00
"	1	"	" ...	12 00	"	1	"	putting Dead Oil in Harford Run.....	12 00
"	1	"	" ...	4 50	"	1	"	putting Dead Oil in Western Inlets....	4 50
"	1	"	" ...	6 00	"	1	"	opening private sewer, Green Willow street.....	6 00
104	Checks on Comptroller...			$6,191 83	104	vouchers for 12 months...			$6,191 83

A. R. CARTER, *Sec'y.*

TABLE No. 9.

Marine Hospital Account for Twelve Months ending December 31st, 1879.

To 13	Checks on	Comptroller...		$9,759 21	By 13	vouchers,	Dr. E. L. Howard	$9,759 21
" 11	"	"	...	627 72	" 11	"	T. M. Green & Bro.....	627 72
" 17	"	"	...	1,740 47	" 17	"	deficiency.....	1,740 47
" 5	"	"	...	340 97	" 5	"	C. Ritter.....	340 97
" 5	"	"	...	362 49	" 5	"	L. Turner, Jr....	362 49
" 2	"	"	...	307 50	" 2	"	Diggs Bros..	307 50
" 3	"	"	...	284 00	" 3	"	Shaw Bros.....	284 00
" 10	"	"	...	133 20	" 10	"	Coleman & Rogers.....	133 20
" 3	"	"	...	127 04	" 3	"	H. Smith.	127 04
" 2	"	"	...	74 55	" 2	"	Cochran & Co....	74 55
" 2	"	"	...	58 40	" 2	"	H. Easter & Sons	58 40
" 2	"	"	...	83 03	" 2	"	Bolton Bros.....	83 03
" 2	"	"	...	38 45	" 2	"	L. Kubel.....	38 45
" 2	"	"	...	37 90	" 2	"	J. Seth Hopkins'	37 90

"	3	"	"	..	94 76	"	3	"	J. Rochie.....	94 76
"	2	"	"	..	30 85	"	2	"	Bibb & Son.....	30 85
"	2	"	"	...	30 50	"	2	"	C. P. Stevens.....	30 50
"	2	"	"	...	71 93	"	2	"	Waite & Kerr...	71 93
"	1	"	"	...	304 98	"	1	"	C. Reeder & Co.	304 98
"	1	"	"	...	62 26	"	1	"	Williams & Co.	62 26
"	1	"	"	...	25 00	"	1	"	U. S. Inspector.	25 00
"	1	"	"	...	42 03	"	1	"	W. A. Page.....	42 03
"	4	"	"	...	120 00	"	4	"	employees.....	120 00
"	15	"	"	...	239 67	"	15	"	sundry persons.	239 67
111 Checks on Comptroller...					$14,996 91	111 vouchers for 12 months.				$14,996 91

A. R. CARTER, *Sec'y.*

TABLE No. 10.

Statement of Disbursements of the Health Department for Twelve Months ending December 31, 1879.

Street and Garbage Account, including contract for removal of garbage	$192,061 09
General Health Account, including post mortems	15,397 45
Nuisance and Sewer Account	6,191 83
Salary Account	17,700 00
Marine Hospital Account	14,996 91
Total disbursements for twelve months	$246,347 28

A. R. CARTER, *Sec'y.*

REPORTS

OF

Professor W. P. TONRY,

UPON THE QUALITY AND CONDITION OF THE

WATER FROM 92 PUMPS

In Various Sections of the City of Baltimore.

1879.

REPORT.

BALTIMORE, May 1, 1879.

Samples (two) of pump water received from the Health Department, marked "Pump S. W. corner Sharp and Hamburg streets," and "Pump opposite house No. 257 W. Biddle street," yield the following results:

Sharp and Hamburg Streets Pump.

Free ammonia, parts per million	2.13
Albuminoid, " "	0.33
Chlorine, grains per gallon	20.50
Total solids, " "	115.50

of which 44.80 grains is volatile and combustible matter, and 70.70 grains mineral matter.

The evaporated residue blackens and fuses when heated.

No. 257 W. Biddle Street Pump.

Free ammonia, parts per million	4.12
Albuminoid, " "	0.28
Chlorine, grains per gallon	8.00
Total solids, " "	72.40

of which 53.90 grains is volatile and combustible matter, and 18.50 grains mineral matter.

The evaporated residue blackens and gives off nitrous fumes when heated.

It is useless to comment on either of the above samples. Both are totally unfit for use as drinking water. The accompanying samples will exhibit this to the eye better than any written statement. The bottle marked No. 1 is city water; No. 2 is from Sharp and Hamburg streets pump, and No. 3 is from the Biddle street pump. Neither of the samples have been evaporated or concentrated; and the only addition made to each of the samples in the bottles is $\frac{1}{6}$ of a fluid ounce of test solution, to precipitate the ammoniacal matter.

Respectfully,

WM. P. TONRY, Ph.D.,
Chemist.

ANALYTICAL LABORATORY, 12 N. HOLLIDAY STREET.

BALTIMORE, June 3, 1879.

Samples of Pump Water received May, 1879, from Health Department, marked as below, yield the following results:

No. of Sample.	Location of Pump as Marked on Tag.	Received, 1879.	Ammonia.		Chlorine.	Solids.			Evaporated residue, when heated.
			Free.	Albuminoid.		Organic and volatile.	Mineral.	Total.	
22	Biddle street and Madison avenue	May 3.	10.80	0.12	143 5	124.0	212.5	336 5	Blackened and fused.
23	S. E. corner Eden and Eager streets	" 3.	0.03	0.05	3.5	12 0	9.5	21.5	" very slightly.
24	Pump of T. M. Kerle, Lafayette avenue, west of Fulton street	" 8.	0 05	0 08	0.9	2.5	4.0	6 5	"
25	Bond and Fayette streets	" 9.	0.15	0 05	8.5	24 0	21.5	45.5	"
26	Belair and Boundary avenues	" 12.	1.80	0.20	6.8	8.0	12.5	20.5	" very much.

The ammonia, as in former reports, is expressed in parts per million, (milligrammes per litre); the other constituents in grains per imperial gallon.

Samples 22, 25 and 26 are contaminated by soakage or drainage from privies or stables, and are totally unfit for drinking purposes. Sample 26 contained a floculent brown deposit, from which the clear water used in the determinations was decanted. All the other samples were clear, colorless and without odor—as was also sample 26 when decanted from the deposit. Samples 23 and 24 may be classed as suspicious drinking waters. The impurities in them are more probably from surface drainage or vegetable decomposition than from any other source.

The accompanying samples show the amount of ammonia in four fluid ounces of each of these samples—the bottle marked "City" being city hydrant water.

WM. P. TONRY, PH.D., *Chemist.*

BALTIMORE, June 20, 1879.

Samples of Pump and Spring Water received 1879 from Health Department, marked as below, yield the following results:

No. of Sample.	Location of Pump as Marked on Tag.	Sample received 1879.	Ammonia. Free.	Ammonia. Albuminoid.	Chlorine.	Residue by Evaporation. Organic and volatile.	Residue by Evaporation. Mineral.	Residue by Evaporation. Total.	Reaction when heated.
27	Rock and Lexington streets	May 27.	1.02	1.30	12.2	31.	39.	70.	Blackened.
28	S. W. cor. Lombard and Dallas streets	" 12.	0.32	0 06	14 8	27.	36.	63.	"
29	N. E. cor. Franklin street and Arlington avenue.	" 12.	0.01	0.04	5.9	13.	17.	30.	
30	N. W. cor. Lombard and Durham streets	" 12.	0.00	0 05	7.3	16.	18.	34.	
31	S. E. cor. Howard and Conway streets	" 13.	4 05	0.20	18.0	20.	48.	68.	Fused.
32	Harlem Square	June 18.	0 96	0.12	2 5	8.	11.	19.	Brown residue black'd

The ammonia is expressed in parts per million; the other results in grains per gallon.

Nos. 27, 28, 31 and 32 are absolutely unfit for use as potable waters. Nos. 29 and 30 are good, although the amount of chlorine in each is rather high.

WM. P. TONRY, PH.D., *Chemist.*

BALTIMORE, July 24, 1879.

Samples of Water from Druid Hill Park received June, 1879, from Health Department, marked as below, yield the following results:

No. of Sample.	When received.	Marks on Sample.	Ammonia.		Chlorine.	Residue by Evaporation.		
			Free	Albuminoid.		Organic and volatile.	Mineral.	Total.
35	June 21	Pump No. 1, R. R. entrance.	0.02	0 03	0.70	2.5	4.	6.5
36	" 21.	" 2, Main entrance.	0.01	0.04	1.25	6.	7.	13.
37	" 21.	" 3, No. 5 Grove...	0.02	0.03	0.40	4.	10.5	14 5
38	" 21.	" 4, No. 3 Grove...	0 03	0.06	4.10	18.	14.	32.
39	" 21.	" 5, N. W. entrance.	0.02	0.05	1.70	15.	17.	32.

Sample No. 35, when received, contained a brown-red solid matter in suspension. This was allowed to settle; and the analysis was made from the clear sample. Nos. 36 and 37 are samples of an excellent potable water. No. 35 is a good water after settling or after filtration. No. 39 may be classed as a good water. The amount of organic and volatile matter is rather high, but is probably more from vegetable than from animal sources, as will be perceived by noting the amount of chlorine. Sample 38 would, perhaps, more properly be classed as a suspicious water than as good.

Respectfully,

WM. P. TONRY, Ph.D.,
Chemist.

BALTIMORE, August 15, 1879.

Samples of Spring and Pump Water received 1879 from Health Department, marked as below, yield the following results:

No. of Sample.	When received.	Sample Marked.	Ammonia.		Chlorine.	Residue by Evaporation.		
			Free.	Albuminoid.		Organic and volatile.	Mineral.	Total.
40	June 3.	Perkins' Spring.....	2.66	0.38	8.	37.	18.5	55 5
41	July 15.	Spring at Eastern Fountain, E. Pratt and Eden streets.	0.19	0 11	13.3	32 5	12.	44.5
42	" 26.	Patterson Park, Pratt-street gate pump.....	0.01	0.05	4.4	1.5	12.	13.5
43	" 26.	Patterson Park, pump near Gough-street gate.....	0.96	0.28	8.8	26.	39.	65.
44	" 26.	Patterson Park, pump near Eastern-avenue gate.....	0.03	0.07	3.3	23.5	21.	44.5
45	May 27.	Chase street, bet. Eden and Caroline streets.....	0.05	0.60	5.6	29.	9.	38.
46	" 27.	Gay st. and Central ave.....	0 13	0.75	13.5	38.	22.	60.
47	" 27.	Bond and Eager streets.....	0.13	2.40	8 5	27.	10.	37.
48	June 24.	51 N. Stricker street.....	0.03	0.05	3.5	16.	8.	24.
49	" 3	36 Rock street.....	18.00	0.25	8.5	25.	22.	47

Sample No. 42 is a good potable water. Nos. 44 and 48 are suspicious, the organic matter being too high. The impurity in these two cases is, however, more of vegetable than of animal origin. The other samples are unfit for use as potable waters.

Respectfully,

WM. P. TONRY, Ph.D.,
Chemist.

BALTIMORE, August 23, 1879.

Samples of Pump Water received 1879 from Health Department, marked as below, yield the following results:

No. of Sample.	When received.	Marks on Sample.	Ammonia.		Chlorine.	Residue by Evaporation.		
			Free.	Albuminoid.		Organic.	Mineral.	Total.
50	May 29.	Hughes and Hanover streets	0.02	0.24	47.6	78.	96.	174.
51	" 29.	Light and Cross streets.....	0.02	3 60	26.8	64.	48.	112.
52	" 29.	Gilmor and Saratoga streets	0.16	0.08	3.4	13.5	11.5	25.
53	" 29.	Patterson av. & Whatcoat st.	0 05	0.12	3.7	17.	11.	28.
54	June 18.	Cathedral and Chase streets	4 80	0.18	8.9	23.	9.	32.
55	" 18	In front of 78 Orchard street.	1.12	0 26	10.8	35.	32.	67.
56	" 18.	Hampstead and Spring sts..	0 00	0.06	9.4	33.	20.	53.
57	" 18.	Washington st. & Canton av.	0.01	0.03	4.9	20.	8.	28.

Sample No. 57 is a good potable water. No. 53 is suspicious. The others are not fit to drink. The character of the organic matter in No. 56 will be apparent by reference to accompanying samples, in which 56 A shows a small amount of ammonia, but 56 O shows a large amount of oxidizable organic matter.

Respectfully,

WM. P. TONRY, Ph.D.,
Chemist.

BALTIMORE, September 4, 1879.

Samples of Pump Water received 1879 from Health Department, marked as below, yield the following results:

No. of Sample.	When received.	Marks on Sample.	Ammonia.		Chlorine.	Residue by Evaporation.		
			Free.	Albuminoid.		Volatile.	Mineral.	Total.
58	June 4.	Thames street, bet. Bond and Caroline streets.....	0.02	0.06	1.10	3.80	2.50	6.30
59	" 4.	Lancaster and Ann streets..	0.02	0.06	1.80	7.50	4.50	12.
60	" 4.	Washington and Bank sts..	0.02	0.06	6.80	22.	5.	27.
61	" 4.	Bank and Castle streets....	0.02	0.16	4.20	8.50	7.50	16.
62	Aug. 26.	Fayette and Durham sts....	5.33	0.44	24.80	16.50	45.	61.50
63	June 4.	Chesapeake and Hudson sts	0.00	0.04	1.70	8.	5.	13.
64	" 4.	Granby st. and Central ave.	0.02	0.04	11.30	28.	12.	40.
65	" 4.	Fayette st. and Broadway..	0.06	0.08	5.40	11.	10.	21.
66	" 4.	Orleans st. and Broadway .	0.05	0.04	5.50	19.	10.	29.
67	" 4.	Baltimore and Frederick sts.	0.02	0.10	5.60	18.	24.	42.
	Sept. 3.	City hydrant water, filtered.	0.08	0.12	0.40	5.	3.	8

Sample No. 63 is a good potable water. No. 61 is bad; while No. 62 is not only bad, but filthy. The other samples may be considered suspicious—some much more so than others, as the figures will show. The city hydrant water, June 9, 1879, contained 0.03 free and 0.07 albuminoid ammonia. The very least that can be said of the water at the present date is, that it is so near being positively bad as to be very suspicious.

Respectfully,

WM. P. TONRY, Ph.D.,
Chemist.

BALTIMORE, September 16, 1879.

Samples of Pump Water received 1879 from Health Department, marked as below, yield the following results:

No. of Sample.	When received.	Location Marked on Tag	Ammonia.		Chlorine.	Solids by Evaporation.		
			Free.	Albuminoid.		Volatile.	Mineral.	Total.
68	June 4.	N. W. cor. Druid Hill avenue and Preston street.....	0 72	2.38	8.10	34.	29.	63.
69	" 4.	Druid Hill av & Moore alley.	0.02	1.20	6.80	25.	22.	47.
70	" 4.	205 Presten street, west of Druid Hill avenue.....	0.02	2.10	11 40	48.	42.	90.
71	" 4.	22 Cumberland street, west of Pennsylvania avenue..	0.11	0.18	7.50	25.	18.	43.
72	" 4	58 Cumberland street, near Gilmor.....	0 05	0.07	2.50	8.5	6.5	15.
73	" 4.	Gilmor and Franklin streets.	0.10	0.04	1.10	7.5	3.5	11.
74	" 4.	Carrollton av. and Hollins st.	0.16	3 36	11.50	38.	36.5	74.5
75	" 4.	Parkin and Boyd streets....	0 03	1.60	10 40	30.	42.	72.
76	" 4.	Conway and Little Paca sts.	0.03	1.68	32.20	28.	73.	101.
77	" 4.	Montgomery & Hanover sts.	0.02	0.20	40.40	75.	100.	175.
78	July 26.	Woodyear alley, 100 ft from Cumberland street.....	0.00	0.60	6.30	26.	12.	38.
79	" 26.	Wolf street, near Lancaster.	0.03	0.05	5.10	11.	11.	22.
80		Abbott street, between Bond and Broadway.....	0.01	0.08	6.40	17.5	9.	26.5
81		Holland and Lewis streets..	0.48	0 08	20.2	45.	50.	95.

Samples Nos. 72, 73, 79 and 80 are suspicious. The other samples are totally unfit for use as potable waters.

Respectfully,

WM. P. TONRY, Ph.D.,
Chemist.

BALTIMORE, September 22d, 1879.

Dr. James A. Stewart, Commissioner of Health:

DEAR SIR:

My report to you of the 16th inst. finishes the chemical examination of 71 samples of pump and spring water sent to me from time to time by the Health Department of Baltimore city. The samples came to me in new demijohns, tightly corked with clean new corks. Every portion of each examination was made by myself; each sample was examined by the same process and under the same circumstances, and the results in each case expressed in a similar manner; the ammonia in milligrammes per litre; the chlorine and solids in grains per gallon.

When urine, fœcal matter, blood, flesh, &c., decompose, one of the resulting products of the decomposition is ammonia; and as the dealer in fertilizers judges of the value for fertilizing purposes, of Peruvian guano, blood, tankage, poudrette, &c., so this process of Wanklin and Chapman, by which all these samples were examined, judges of the impurity of water by the amount of ammonia already formed, or which is capable of being formed in the water; the former is called the free ammonia, the latter the albuminoid ammonia.

If it will be remembered that the poudrette which is made from night soil, seldom if ever contains more than two per cent. of ammonia, it will be perceived that a very small amount of ammonia indicates a very

large amount of contamination. Ammonia in a spring or well water indicates decomposing animal matter just as certainly as smoke indicates fire.

Chlorine is a body that is always present in water; in a good water, in very small amount; it is of no particular significance, unless it exceed one grain to the gallon; and the more it exceeds one grain to the gallon, the more significant it becomes. Unpolluted earth does not contain enough soluble chlorine to give to spring, well or river water, more than one grain of chlorine to the gallon; and even when vegetable matter, leaves, fibre, &c., decompose in the spring, well or river water, the amount of chlorine in the water will rarely, if ever, exceed two grains to the gallon. Any amount in excess of two grains to the gallon, points to contamination from sea water or waste from manufactories, provided the amount of ammonia present is at the minimum; if, however, the amount of ammonia present is above the minimum, the presence of even two grains of chlorine to the gallon is an almost absolute proof of contamination from animal excrement or kitchen refuse. Chlorine combined with sodium forms the useful and indispensable article known as common salt. On this subject, Prof. Lattimore, of the University of Rochester, says: "A moment's reflection will convince any one that nearly all the salt used for domestic purposes escapes by the way of two channels, the water-closet and the house-drain. Therefore, we should expect what is always found on examination to be true, that whatever sewage may or may not contain, it always contains salt." In a spring or well water, therefore, salt indicates sewage

or water-closet contamination—if the amount of ammonia is small, the former; if the ammonia is great, the latter.

Now let us turn to the 71 samples that have been examined for the Health Department. They are all from localities within the present city limits, and the majority of the samples are from the most densely populated sections of the city. Thirty-five of the samples are taken from the older portion of the city, east of Jones' Falls; and thirty-six samples from west of Jones' Falls, which is supposed to be much more liberally supplied than the eastern section of the city with all the modern conveniences, among which may be included privy wells sunk to water.

West of Jones' Falls there are 23 filthy, 5 bad, 7 suspicious and one sample that may be called good; while the eastern part of the city has only 10 filthy and 5 bad samples, in addition to 15 suspicious and 5 good samples. Two of the latter, as well as the only one from the western part of the city, might, with some propriety, have their title to being called good, disputed; and if, indeed, the line between good and suspicious were strictly drawn, and none of the samples were called good except such as were absolutely free from all contamination, or were even as good as the city hydrant water usually is, there would not be a single one of the 71 localities marked on the accompanying diagram with the red circle which indicates a good water; all would be marked either with the blue circle indicating a suspicious, or with the black circle indicating a bad sample. The 23 worst samples from West, and the 10 worst samples from East Baltimore,

show such very large amounts of ammonia as to point unmistakably to direct and close contact with privy refuse; and it is more than probable that these wells or springs have been drawing part at least of their supply of water from some of the privy wells that have been sunk to water. Of these 33 filthy samples, 11 from West Baltimore and 4 from East Baltimore contain more free ammonia than a mixture of distilled water and urine, one-tenth of which was urine. As for the bad and suspicious samples, the source of contamination will be found in excrementary matter which has had to pass through the earth for a greater or less distance before oozing into the well or spring.

If "seeing is believing," a comparison of the precipitates in the different vials which accompanied the report on each sample, will give a very correct idea of the amount of organic filth contained in an ordinary tumbler of water. Each vial, which is marked with the number of the sample it represents, contains four fluid ounces of the sample of water just as it was received, to which was added about one teaspoonful (5 '') of Nessler's test solution. There was no boiling or concentration of the water in the vials or any other chemical treatment except the addition of the 5 '' of the test solution. In an absolutely pure water, the test solution will give no precipitate whatsoever.

Samples No. 50 and 75, from Hughes and Hanover streets, and Montgomery and Hanover streets, are either draining a porous marshy sub-soil or have direct communication with the basin or with sewers; the same is true to a lesser extent of samples No. 64, Granby

street and Central avenue; and No. 19, Shield's alley and Mosher street.

From the analysis and observations thus far made, there is hardly any other conclusion to be arrived at than that privy wells cannot be sunk to water in the neighborhood of pumps, without affording to the patrons of the pumps a liberal dilute solution of privy refuse as a potable water; nor can the surface of the ground in the neighborhood of pumps be honeycombed by uncemented privy vaults, without supplying the patrons of adjoining pumps with a less liberal and partially filtered solution from the surrounding sinks.

Respectfully,

Wm. P. Tonry, Ph.D.,

Chemist.

ANALYTICAL LABORATORY, 12 N. HOLLIDAY STREET.

Baltimore, November 12, 1879.

Samples of Pump Water received 1879 from Health Department, marked as below, yield the following results:

No. of Sample.	When received.	Location as Marked on Tag.	Ammonia.		Chlorine.	Solids by Evaporation.		
			Free	Albuminoid.		Volatile	Mineral.	Total.
82	Sept. 27.	Baltimore, near Aisquith st.	0.10	0.06	9.2	21.	14.	35.
83	" 27.	Exeter and Watson streets..	0.04	0.10	12.8	47.	16.	63.
84	" 27.	High and Fayette streets, N. W. corner.....	0.05	0.15	21.0	52.	70.	122.
85	" 27.	Aisquith and McElderry sts	0.13	1.40	15.5	47.	13.	60.
86	" 27.	Eastern ave., N. side, betw. Exeter st. and Central ave.	0.02	0.05	5.3	11.	12.	23.
87	" 27.	Dolphin st. and Park ave...	1.44	0.06	3.1	21.	8.	29.
88	" 27.	Schroeder and Pearce sts...	0.30	0.06	4.9	36.	12.	48.
89	" 27.	John and Townsend streets.	0.52	0.48	5.5	30.	15.	45.
90	" 27.	Baltimore and Calhoun sts..	0.03	0.12	2.4	7.	9.	16.
91	Oct. 8.	Sharp and German streets..	1.60	0.90	8.2	21.	30.	51.

Samples Nos. 82, 83, 86 and 90 are suspicious. Nos. 84 and 88 are bad, and unfit for use as potable waters; while Nos. 85, 87, 89 and 91 are filthy.

The accompanying vials marked 82, 83, 84 and 86 Cl. show the amount of chlorine in two fluid ounces of the samples indicated by the numbers on the vials, compared with the chlorine in two fluid ounces of city hydrant water in the vial marked "City Cl."

Respectfully,

WM. P. TONRY, Ph.D.,
Chemist.

ANALYTICAL LABORATORY, 12 N. HOLLIDAY STREET.

Baltimore, Md., December 18, 1879.

Sample of Water received December 15, 1879, from Health Department, marked "from Pump in front of 155–7 East street, between Ensor and Hillen," yields the following results:

	PER CENT.
Ammonia, free, (parts per million)	1.80
" albuminoid, (parts per million)	0.24
Chlorine, (grains per gallon)	28.50

Solids by Evaporation.

Volatile, (grains per gallon)	38.
Mineral, " "	79.
Total " "	117.

The sample is filthy, and totally unfit for use as a drinking water.

WM. P. TONRY, Ph.D.,
Chemist.

REPORT

OF THE

General Superintendent of Streets.

REPORT.

BALTIMORE, October 31st, 1879.

JAMES A. STEUART, M. D.,
Commissioner of Health:

SIR: In anticipation of the probability of my resigning at an early day the position of Assistant Commissioner of Health and General Superintendent of Streets, which I have had the honor and pleasure of holding under yourself for some years, I have deemed it necessary and proper that I should lay before you a detailed statement or report of work done in the Health Department coming most directly under my charge This you will find fully set forth under its appropriate heading in tabular form for the ten months ending October 31st of the present year, in which I have not only endeavored to give you as succinct an account of the operations in the street and garbage department as possible, but I have also endeavored to classify this work so as to show the actual number of loads of offal, street dirt, &c., collected and removed, as well as the exact number of men and carts employed in each of the four districts into which the city is at present divided, and the amount of money expended by the superintendents of each district for the same.

Hoping the form I have adopted, which I believe to be as plain and practical in its mode of explaining every transaction in this arm of the department as possible, may meet with your approval, and at the same time serve as a guide to my successor, I therefore submit the same for your inspection.

In addition to the street and garbage department, there are other matters pertaining to the duties of my position, which I shall here take occasion to speak of. The first of these claiming my attention, and possibly the most important, I shall class as

SEWERS AND NUISANCES.

The fact of many of the sewers throughout the entire city being in a lamentably bad condition has been from year to year fully set forth in former reports of mine. It is therefore unnecessary for me to write further upon this subject than merely to call attention to what this department, under your instructions, has done to assist in the preservation of health in the localities in which these sewers are situated.

There has been a much larger amount of filth removed from the interior of these sewers, and also from the inlets leading thereto, during this year, than in any year previous in my experience, as the following report from those having this matter under their immediate charge will show:

Removed from sewers	1,897	cart loads.
" " inlets to same	575	"
	2,472	

At the same time the following amount of deodorizers and disinfectants have been used in same:

13,522 pounds of carbolate of lime.
10 barrels dilute solution of phenyle.
73 barrels dead oil.
1,178 pounds sulphate of iron.

These undoubtedly contributed largely to dispel the foul odors arising from the inlets to the various sewers throughout the city, and were without doubt of great value in a sanitary point of view.

LIME.

Your instructions in reference to the free use of lime in all lanes, alleys, gutters, vacant lots, badly paved yards, and all places where stagnant pools of water were to be found, have been faithfully carried out. Much of the 14,250 bushels of lime spread throughout the city during the heated term of the past summer was distributed under my immediate personal supervision. I am convinced that no other agent could possibly have been made use of at so small a cost, with equal beneficial result to the neighborhood in which it was used. The extraordinary good health of those living in the low and flat portions of the city, as well as those living in the small and crowded lanes and alleys, fully attest this fact, and proves, I think conclusively, your wisdom in adopting the rule of thorough liming during the summer months.

A very large number of alleys have been paved and repaired during the last ten months, and the usual activity of the department has been displayed in filling up vacant lots and beds of projected streets through low and marshy grounds, as well as promptly abating a great variety of nuisances coming within the scope and attention of this department. There will be found

appended to this a tabular statement of a number of nuisances abated. In addition to what is shown in this table, I desire to state that every possible exertion has been put forth to keep the docks and harbor clean throughout the summer months, of all floating, decayed animal and vegetable matter, which, to say the least, is offensive and annoying to those engaged in business in that portion of our city. There has been removed of this character of putrid and offensive matter 431 cart loads, which was immediately taken to a proper distance beyond the city limits.

The unusual severity of the past winter, and consequent large accumulation of ice in the streets, caused by bursted water-pipes and the usual surface-flow of water, required unremitting attention and a large force of hands to keep open and passable the many avenues of trade and travel, particularly in the business portions of the city. The expenditure of money during the winter months was greatly in excess of the amount appropriated for this work. It therefore became necessary for us to shorten the force throughout a part of the summer months, in order not to exceed the limits of the annual appropriation as directed by law. There was, in consequence, not so much work accomplished in the street department as there otherwise would have been done during this time. Notwithstanding this, the city is in a comparatively cleanly condition, and there is now, I am pleased to say, sufficient funds on hand to clean the streets and place the city in a thoroughly good and cleanly condition before the winter weather sets in.

I cannot close this communication without again calling the attention of the proper authorities to the

condition of Ann street, between Biddle and Chase streets, and also Wolfe street, between the same streets. About two-thirds of the squares here alluded to still remain unpaved. The same may be said of a network of alleys running into these streets, none of which are paved, nor can they be paved until the parts of the above-mentioned streets are properly graded and paved. This department has done much in this vicinity by filling lots, and also the beds of these streets, for the purpose of abating a nuisance existing there, yet their exertions have only been attended with partial success. I repeat, it is impossible to abate this nuisance until these streets are properly graded and paved. We have the assurance that so soon as this is done the adjacent property-holders will at once have all private alleys depending upon these streets for an outlet, paved. As I have before remarked, I do not think it possible to calculate the good this would accomplish in a sanitary point of view. Besides this, justice to those who reside there, and to the owners of property in that locality, as well as the general health of the city, demands that this work should be done. It is indeed a matter of surprise to me that this affair has not been attended to ere this, particularly when the trifling cost it would be to the city is taken into account.

Again, Eager street, from Wolfe to Chester streets, has been brought to grade by the Health Department, as well as thousands of yards of filling has been done on both sides of this street, for the purpose of abating a nuisance which has existed there for years on this low and marshy ground, which was a receptacle for the washings of slaughter-houses in that vicinity; and as no proper drainage could be had until this property

was brought up to grade with the adjacent streets, it therefore remained one vast cesspool or receptacle for all manner of filthy water and blood, no care being taken as to the character of the water, &c., allowed to flow on to it. Now that this street and the adjoining lots have been filled, much of the former nuisance at this point is overcome, very much to the relief and health of those who reside in that neighborhood. It yet remains for the city to pave Eager street, from Wolfe to Chester street, in order that all water, whether from butchers' establishments or otherwise, may flow on the surface, instead of spreading itself over the entire bed of this newly-graded street and on to the adjacent lots, we have as before stated, brought to grade with this street, and thereby continue a nuisance which, with the small outlay occasioned by paving one square, would effectually abate; for then those having occasion to let water flow from their premises would be careful to allow nothing of a nauseous or offensive character to run down this street; for should they do so, they would be amenable to the law, and no nuisance could possibly be created then without its coming directly under the notice and control of the department, and be easy of abatement. This matter of paving one square is of the highest importance to this section of the city, and no delay should be had in its accomplishment.

In conclusion, I beg to return you my sincere thanks for the many valuable suggestions and prompt support received from you in regard to the work necessary to be performed by me. Your kind and courteous manner at all times toward me has rendered my varied and arduous duties of office comparatively a pleasant task. Indeed, the pleasant associations as an assistant to your-

self will ever be remembered with pride and pleasure; and while I feel there is a certainty of my severing my connection with the Health Department of our city, I sincerely hope the wisdom of those who have the appointing and confirming power may retain so valuable, courteous and estimable a public officer as I know you to be, should it be your desire to remain.

The many reforms brought about in this department by your individual exertions are too well known to the public at large to need comment at my hands; and if, in my efforts to properly discharge the duties assigned me, I have been of any assistance to you in your varied, delicate and arduous duties, all of which have tended to the advancement of proper sanitary regulations, looking solely to the health of our people and the prosperity of our city—I repeat, if I have been of the slightest advantage to you in these matters, I shall consider myself amply repaid for the earnest endeavor I have at all times made to carry out your instructions.

I am, sir, most truly,
Your obedient servant,

A. E. SMYRK,
Assistant Commissioner of Health
and General Superintendent of Streets.

REPORT.

BALTIMORE, January 1st, 1880.

JAMES A. STEWART, M. D.,

Commissioner of Health:

SIR:

As Assistant Commissioner of Health and General Superintendent of Streets, I respectfully submit the following addenda to the report of my predecessor in this office to complete the work of this department for the fiscal year ending December 31st, 1879.

The annexed tables will show the amount of work performed and the amount of money expended for same, from November 1st, to December 31st, 1879; also a recapitulation of the total amount of work performed, and expenditures from January 1st to December 31st, 1879.

Total number of loads removed for two months, from November 1st to December 31st, 1879	44,344
Total amount of money expended of Street and Garbage appropriation for two months, from November 1st to December 31st, 1879	$27,560 59

Amount of money received for two months, from November 1st to December 31st, 1879, and paid City Comptroller for refuse sold	$579 05

Total amount of work done in the Street and Garbage department, from January 1st to December 31st, 1879; also amount of money expended for same.

Total number of loads removed from January 1st to December 31st, 1879	282,737
Cost of same	$177,946 09
By resolution of City Council, No. 251, approved October 27th, 1879, there was paid out of the Street and Garbage appropriation, for cleansing Public School privies	615 00
Total expenditures	$178,561 09

Average cost of removing garbage, street dirt, sand, ice, snow, &c., per load	.62 cents.
Amount of annual appropriation for Street and Garbage department	$180,000 00
Total expenditures	178,561 09
Balance in hands of City Comptroller.	1,438 91

Total amount of money received for ten months ending October 31st, 1879, and paid City Comptroller for refuse sold....	$2,283 11
Total amount of money received for two months ending December 31st, 1879, and paid City Comptroller for refuse sold ...	579 05
	$2,862 16

You will also find tables showing the number of notices issued by this department, nuisances abated, official letters written, and an inventory of tools, &c., belonging to the city.

In conclusion, allow me to return you my sincere thanks for your many kind acts; and hoping that my efforts have met with your approbation,

I remain,
Very respectfully,
Your obedient servant,

JAMES F. MCSHANE, M. D.,
Assistant Commissioner of Health and General Superintendent of Streets.

TABLES.

TABLE A.

Weekly Report showing amount of work done and number of men employed in the several Districts; also amount of money expended for same, for ten months ending October 31st, 1879.

FIRST DISTRICT. B. V. KELLY, SUPERINTENDENT.	Garbage and Ashes Removed.	Street Dirt, Sand, &c. Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed	Total amount of Expenditures.
Week ending Jan'y 4th.	458	1,064	$252 00	$545 25	14	15	32	1,522	$797 25
" " 11th.	434	1,107	252 00	454 50	14	16	34	1,541	706 50
" " 18th.	464	1,076	252 00	519 75	14	14	36	1,540	771 75
" " 25th.	444	1,243	252 00	519 75	14	15	35	1,687	771 75
	1,800	4,490	$1,008 00	$2,039 25	56	60	137	6,290	$3,047 25

Week ending Feb'y 1st.	435	1,381	$252 00	$590 25	14	16	38	1,816	$842 25
" " 8th.	404	846	252 00	442 50	14	15	38	1,250	694 50
" " 15th.	453	1,148	252 00	543 75	14	15	39	1,601	795 75
" " 22d ..	483	793	252 00	333 00	14	14	23	1,276	585 00
	1,775	4,168	$1,008 00	$1,909 50	56	60	138	5,943	$2,917 50
Week ending March 1st.	436	765	$252 00	$292 50	14	11	19	1,201	$544 50
" " 8th.	460	903	252 00	357 00	14	13	24	1,363	609 00
" " 15th.	483	1,233	270 00	427 50	15	14	22	1,716	697 50
" " 22d ..	509	1,210	270 00	431 25	15	14	23	1,719	701 25
" " 29th.	496	977	270 00	414 75	15	14	26	1,473	684 75
	2,384	5,088	$1,314 00	$1,923 00	73	66	114	7,472	$3,237 00
Week ending April 5th.	524	1,045	$270 00	$505 50	15	14	30	1,569	$775 50
" " 12th.	517	1,203	270 00	454 50	15	15	31	1,720	724 50
" " 19th.	490	1,070	270 00	513 75	15	16	39	1,560	784 10
" " 26th.	618	1,160	225 00	388 85	15	13	21	1,778	613 50
	2,149	4,478	$1,035 00	$1,862 60	60	58	121	6,627	$2,897 60
Week ending May 3d ...	433	980	$225 00	$374 25	15	12	23	1,413	$599 25
" " 10th...	431	459	225 00	234 00	15	13	22	890	459 00
" " 17th...	409	512	225 00	264 00	15	14	27	921	489 00
" " 24th...	457	475	225 00	266 25	15	14	28	932	491 25
	1,730	2,426	$900 00	$1,138 50	60	54	101	4,156	$2,038 50

TABLE A—Continued.

FIRST DISTRICT B. V. KELLY, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c, Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending June 2d ..	518	575	$225 00	$268 50	15	14	28	1,093	$493 50
" " 9th..	507	525	225 00	268 50	15	14	28	1,032	493 50
" " 16th..	458	485	225 00	282 00	15	15	29	943	507 00
" " 22d..	560	480	225 00	291 00	15	15	31	1,040	516 00
" " 29th..	474	588	225 00	300 00	15	16	31	1,062	525 00
	2,517	2,653	$1,125 00	$1,410 00	75	74	174	5,170	$2,535 00
Week ending July 5th..	446	559	$225 00	$301 50	15	11	17	1,105	$535 50
" " 12th..	455	659	225 00	309 00	15	11	17	1,114	534 00
" " 19th..	430	659	270 00	317 25	15	12	20	1,089	587 25
" " 23d...	447	625	270 00	318 00	15	11	20	1,072	588 00
	1,778	2,602	$990 00	$1,254 75	60	45	74	4,380	$2,244 75

Week ending August 2d.	407	579	$270 00	$459 75	15	20	21	986	$729 75
" " 9th.	453	785	270 00	491 25	15	19	21	1,238	761 25
" " 16th.	477	804	270 00	362 25	15	16	20	1,281	632 25
" " 23d ..	486	574	270 00	268 50	15	16	20	1,060	538 50
	1,823	2,742	$1,080 00	$1,581 75	60	71	82	4,665	$2,661 75
Week ending Sept. 1st...	472	465	$270 00	$257 25	15	9	15	937	$527 25
" " 6th..	434	660	270 00	330 00	15	9	18	1,094	600 00
" " 13th..	469	657	270 00	244 50	15	9	10	1,126	514 50
" " 20th..	474	732	270 00	244 50	15	9	10	1,206	514 50
" " 27th..	447	520	270 00	259 50	15	9	12	967	529 50
	2,296	3,034	$1,350 00	$1,335 75	75	45	65	5,330	$2,685 75
Week ending Oct. 4th...	446	530	$270 00	$261 00	15	10	14	976	$531 00
" " 11th...	430	546	270 00	264 00	15	10	14	976	534 00
" " 18th...	432	630	225 00	297 00	15	11	16	1,062	522 00
" " 25th...	407	735	225 00	309 00	15	12	16	1,142	534 00
	1,715	2,414	$9,900 00	$1,131 00	60	43	60	4,156	$2,121 00

A. E. SMYRK, *Assistant Commissioner of Health.*

TABLE A—Continued.

SECOND DISTRICT. THOS. KERNAN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed	Total amount of Expenditures.
Week ending Jan'y 7th.	411	668	$324 00	$374 25	18	11	30	1,079	$698 25
" " 14th.	411	667	324 00	393 00	18	11	30	1,078	717 00
" " 21st..	415	776	324 00	418 50	18	11	29	1,191	742 50
" " 28th.	411	802	324 00	362 25	18	11	28	1,213	686 25
	1,648	2,913	$1,296 00	$1,548 00	72	44	117	4,561	$2,844 00
Week ending Feb'y 4th.	406	808	$324 00	$351 00	18	11	15	1,214	$675 00
" " 11th.	404	592	324 00	338 25	18	11	25	996	662 25
" " 18th.	399	794	324 00	438 00	18	11	25	1,193	762 00
" " 25th.	392	538	324 00	308 25	18	11	13	930	632 25
	1,601	2,732	$1,296 00	$1,435 50	72	44	78	4,333	$2,731 50

Week ending March 4th.	394	672	$324 00	$364 50	18	10	15	1,066	$688 50
" " 11th.	390	564	324 00	348 00	18	11	17	954	672 00
" " 18th.	411	474	324 00	452 25	18	13	23	885	776 25
" " 25th.	396	483	324 00	456 00	18	13	24	879	780 00
	1,591	2,193	$1,296 00	$1,620 75	72	47	79	3,784	$2,916 75
Week ending April 1st..	401	556	$324 00	$483 00	18	14	29	957	$807 00
" " 7th.	403	589	324 00	534 00	18	14	30	992	858 00
" " 14th.	415	667	324 00	515 25	18	13	25	1,082	839 25
" " 21st..	404	421	324 00	375 75	18	13	29	825	699 75
" " 28th.	507	616	270 00	448 50	18	12	23	1,123	718 50
	2,130	2,849	$1,566 00	$2,356 50	90	66	136	4,979	$3,922 50
Week ending May 5th...	406	358	$270 00	$414 75	18	12	26	764	$684 75
" " 12th...	411	240	270 00	230 25	18	12	17	651	500 25
" " 19th...	415	238	270 00	237 00	18	12	17	653	507 00
" " 26th...	378	227	270 00	248 25	18	12	19	605	518 25
	1,610	1,063	$1,080 00	$1,130 25	72	48	79	2,673	$2,210 25

TABLE A—Continued.

SECOND DISTRICT. THOS. KERNAN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed	Total amount of Expenditures.
Week ending June 2d...	441	234	$270 00	$255 75	18	12	18	675	$525 75
" " 9th...	448	263	270 00	263 25	18	12	19	711	533 25
" " 16th...	435	258	270 00	267 75	18	12	20	693	537 75
" " 23d ...	437	269	270 00	265 50	18	12	20	706	535 50
	1,761	1,024	$1,080 00	$1,052 25	72	48	77	2,785	$2,132 25
Week ending July 1st...	449	299	$270 00	$267 75	18	12	19	748	$537 75
" " 7th..	430	428	270 00	367 50	18	13	18	858	637 50
" " 14th..	448	334	270 00	294 00	18	13	19	782	564 00
" " 21st...	447	343	270 00	305 25	18	13	19	790	575 25
" " 28th..	457	351	334 00	381 75	18	12	19	808	642 75
	2,231	1,755	$1,404 00	$1,553 25	90	63	94	3,986	$2,957 25

Week ending August 4th.	388	336	$324 00	$342 00	18	13	20	724	$666 00
" " 11th.	532	488	324 00	370 50	18	13	19	1,020	694 50
" " 18th.	567	383	324 00	317 00	18	13	16	950	641 00
" " 25th.	557	273	324 00	228 00	18	08	10	830	552 00
	2,044	1,480	$1,296 00	$1,257 50	72	47	65	3,524	$2,553 50
Week ending Sept. 2d...	550	210	$324 00	$220 50	18	11	10	760	$544 50
" " 9th..	533	251	324 00	237 20	18	11	11	784	561 20
" " 16th..	516	276	324 00	243 00	18	10	11	792	567 00
" " 23d...	497	270	324 00	244 50	18	9	11	767	568 50
" " 30th..	476	279	324 00	267 00	18	10	17	755	591 00
	2,572	1,286	$1,620 00	$1,212 20	90	41	60	3,858	$2,832 20
Week ending Oct. 6th...	464	318	$324 00	$255 00	18	9	12	782	$579 00
" " 13th...	463	245	324 00	259 50	18	9	12	708	583 50
" " 20th ..	450	310	270 00	291 00	18	10	14	760	561 00
" " 27th...	435	398	270 00	349 50	18	12	20	833	619 50
	1,812	1,271	$1,188 00	$1,155 00	72	40	58	3,083	$2,343 00

A. E. SMYRK, *Assistant Commissioner of Health.*

TABLE A—Continued.

THIRD DISTRICT. — MICHAEL FADGEN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending Jan'y 8th.	579	596	$306 00	$443 25	17	12	27	1,175	$749 25
" " 15th.	596	620	306 00	467 25	17	12	33	1,216	773 25
" " 22d ..	594	648	306 00	473 25	17	12	32	1,242	779 25
" " 29th.	631	720	306 00	492 00	17	13	36	1,351	798 00
	2,400	2,584	$1,224 00	$1,875 75	68	49	128	4,984	$3,099 75
Week ending Feb'y 5th.	593	728	$306 00	$495 00	17	12	38	1,321	$801 00
" " 12th.	612	424	306 00	388 50	17	14	36	1,036	694 50
" " 19th.	597	526	306 00	452 25	17	14	35	1,123	758 25
" " 26th.	595	400	306 00	246 00	17	10	17	995	552 00
	2,397	2,078	$1,224 00	$1,581 75	68	50	126	4,475	$2,805 75

Week ending March 5th.	599	370	$306 00	$279 75	17	9	19	969	$585 75
" " 12th.	594	446	306 00	328 50	17	10	21	1,040	634 50
" " 19th.	597	650	306 00	423 00	17	13	21	1,247	729 00
" " 26th.	597	512	306 00	468 00	17	13	29	1,109	774 00
	2,387	1,978	$1,224 00	$1,499 25	68	45	90	4,365	$2,723 25
Week ending April 2d..	588	732	$306 00	$493 50	17	15	32	1,322	$799 50
" " 9th.	603	636	306 00	509 25	17	15	37	1,239	815 00
" " 16th.	592	662	306 00	492 00	17	16	37	1,252	798 00
" " 23d..	562	736	306 00	465 00	17	12	24	1,298	771 25
" " 30th.	432	596	255 00	378 00	17	12	24	1,028	633 00
	2,777	3,362	$1,479 00	$2,337 75	85	60	155	6,139	$3,816 75
Week ending May 7th...	511	340	$255 00	$240 50	17	12	25	857	$595 50
" " 14th...	515	240	270 00	228 75	18	10	25	755	498 75
" " 21st...	537	319	270 00	231 00	18	11	26	856	501 00
" " 28th...	528	273	270 00	243 00	18	13	27	801	513 00
	1,842	1,178	$1,065 00	$1,043 25	71	46	103	3,269	$2,108 25

TABLE A—Continued.

THIRD DISTRICT. MICHAEL FADGEN, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending June 4th...	455	332	$270 00	$231 00	18	12	25	787	$501 00
" " 11th...	471	348	270 00	234 00	18	12	25	819	504 00
" " 18th...	456	396	270 00	285 50	18	13	27	852	550 50
" " 25th...	460	412	270 00	257 25	18	13	26	872	527 25
	1,842	1,488	$1,080 00	$1,002 75	72	50	103	3,330	$2,082 75
Week ending July 2d ...	448	430	$270 00	$291 00	18	14	26	878	$561 00
" " 9th..	458	440	270 00	299 25	18	12	25	898	569 25
" " 16th..	465	465	270 00	304 50	18	13	25	930	574 50
" " 23d ...	471	462	324 00	309 00	18	12	25	933	633 00
" " 30th..	461	520	324 00	309 75	18	12	20	981	633 75
	2,303	2,317	$1,458 00	$1,513 50	90	63	121	4,620	$2,971 50

Week ending August 6th.	483	545	$324 00	$317 25	18	13	25	1,028	$641 25
" " 13th.	497	480	324 00	312 75	18	12	26	977	636 75
" " 20th.	505	596	324 00	339 00	18	13	26	1,101	663 00
" " 27th.	514	314	324 00	222 00	18	8	9	828	546 00
	1,999	1,935	$1,296 00	$1,191 00	72	46	86	3,934	$2,487 00
Week ending Sept. 3d ...	524	368	$324 00	$230 20	18	8	9	892	$554 20
" " 10th.	521	380	324 00	219 75	18	8	9	901	543 75
" " 17th.	522	384	324 00	225 00	18	8	9	906	549 00
" " 24th.	499	260	324 00	225 00	18	8	9	759	549 00
	2,066	1,392	$1,296 00	$899 95	72	32	36	3,458	$2,195 95
Week ending Oct. 1st...	496	384	$324 00	$225 00	18	8	9	880	$549 00
" " 8th...	884	422	324 00	240 00	18	9	10	906	564 00
" " 15th...	477	434	324 00	252 00	18	9	10	911	576 00
" " 22d	479	400	270 00	288 00	18	10	12	879	558 00
" " 29th...	496	500	270 00	297 00	18	10	12	996	567 00
	2,432	2,140	$1,512 00	$1,302 00	90	46	53	4,572	$2,814 00

A. E. SMYRK, *Assistant Commissioner of Health.*

TABLE A—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed	Total amount of Expenditures
Week ending Jan'y 2d..	553	511	$360 00	$380 25	20	9	30	1,064	$740 25
" " 9th.	533	823	360 00	289 50	20	9	25	1,356	649 50
" " 16th.	534	741	360 00	369 00	20	9	26	1,275	729 00
" " 23d..	532	766	360 00	359 25	20	9	25	1,298	719 25
" " 30th.	531	595	360 00	389 25	20	9	26	1,126	749 25
	2,683	3,436	$1,800 00	$1,787 25	100	45	132	6,119	$3,587 25
Week ending Feb'y 6th.	546	740	$360 00	$413 25	20	11	26	1,286	$773 25
" " 13th.	536	479	360 00	276 00	20	9	25	1,015	636 00
" " 20th.	530	473	360 00	265 50	20	9	25	1,003	625 50
" " 27th.	521	601	360 00	315 75	20	9	18	1,122	675 75
	2,131	2,293	$1,440 00	$1,270 50	80	38	94	4,426	$2,710 50

Week ending March 6th.	525	400	$360 00	$248 25	20	9	27	925	$608 25
" " 13th.	528	538	360 00	354 75	20	9	19	1,066	714 75
" " 20th.	538	573	360 00	372 75	20	10	22	1,111	732 75
" " 27th.	580	498	360 00	393 75	20	10	25	1,078	753 75
	2,171	2,009	$1,440 00	$1,369 50	80	38	93	4,180	$2,809 50
Week ending April 3d..	547	474	$360 00	$379 50	20	9	26	1,021	$739 50
" " 10th.	539	466	360 00	379 50	20	9	26	1,005	739 50
" " 17th.	510	460	360 00	368 73	20	9	27	970	728 73
" " 24th.	525	430	360 00	555 88	20	9	28	955	715 88
	2,121	1,830	$1,440 00	$1,483 61	80	36	107	3,951	$2,923 61
Week ending May 1st...	488	396	$300 00	$332 25	20	9	21	884	$632 25
" " 8th...	489	425	300 00	348 00	20	9	21	914	648 00
" " 15th...	440	365	300 00	237 00	20	9	21	805	537 00
" " 22d ...	493	294	300 00	258 75	20	9	21	787	558 75
" " 29th...	477	382	300 00	258 75	20	9	21	859	558 75
	2,387	1,862	$1,500 00	$1,434 75	100	45	105	4,249	$2,934 75

TABLE A—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c. Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed	Total amount of Expenditures.
Week ending June 5th..	448	348	$300 00	$270 75	20	9	21	796	$570 75
" " 12th..	443	362	300 00	267 45	20	9	21	805	567 45
" " 19th..	441	368	300 00	276 78	20	9	21	809	576 78
" " 26th..	412	476	300 00	348 00	20	9	21	888	648 00
	1,744	1,554	$1,200 00	$1,162 98	80	36	84	3,298	$2,362 98
Week ending July 3d ...	410	457	$300 00	$348 00	20	9	21	867	$648 00
" " 10th...	416	403	300 00	333 00	20	9	21	819	633 00
" " 17th...	406	453	360 00	343 50	20	9	21	859	703 50
" " 24th...	388	575	360 00	342 00	20	9	21	963	702 00
" " 31st...	398	404	360 00	324 38	20	9	21	802	684 38
	2,018	2,292	$1,680 00	$1,690 88	100	45	105	4,310	$3,370 88

Week ending August 7th.	461	413	$360 00	$348 75	20	9	21	874	$708 75
" " 14th.	515	430	361 00	350 25	20	9	22	945	711 25
" " 21st..	511	532	360 00	337 85	20	9	25	1,043	697 85
" " 28th.	540	369	360 00	308 25	20	9	21	909	668 25
	2,027	1,744	$1,441 00	$1,345 10	80	36	89	3,771	$2,786 10
Week ending Sept. 4th..	495	759	$360 00	$367 50	20	9	23	1,254	$727 50
" " 11th..	472	430	360 00	294 00	20	9	16	902	554 00
" " 18th..	425	393	360 00	303 00	20	9	17	818	663 00
" " 25th..	381	426	360 00	309 00	20	9	17	807	669 00
	1,773	2,008	$1,440 00	$1,273 50	80	36	73	3,781	$2,713 50
Week ending Oct. 2d. ...	428	400	$360 00	$294 75	20	9	16	828	$654 75
" " 9th...	402	435	360 00	336 00	20	9	21	837	696 00
" " 16th ..	387	559	360 00	345 00	20	9	21	946	705 00
" " 23d	391	585	300 00	347 50	20	9	21	976	647 50
" " 30th....	377	414	300 00	327 00	20	9	21	791	627 00
	1,985	2,393	$1,680 00	$1,650 25	100	45	100	4,378	$3,030 25

A. E. SMYRK, *Assistant Commissioner of Health.*

TABLE A—Continued.

FIFTH DISTRICT. — JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed	Total amount of Expenditures
Week ending Jan'y 4th.	751	399	$486 00	$348 00	27	12	25	1,150	$834 00
" " 11th.	720	379	486 00	321 75	27	12	26	1,099	807 75
" " 18th.	776	720	486 00	381 75	27	12	30	1,490	867 75
" " 25th.	749	883	486 00	374 25	27	12	30	1,632	860 25
" " 31st..	789	1,107	486 00	465 75	27	17	40	1,896	951 75
	3,785	3,488	$2,430 00	$1,891 50	135	65	151	7,273	$4,321 50
Week ending Feb'y 7th.	783	1,135	$486 00	$440 25	27	16	40	1,918	$926 25
" " 14th.	780	738	486 00	290 25	27	13	33	1,524	776 25
" " 21st..	774	916	486 00	360 75	27	13	36	1,690	846 75
" " 28th.	779	375	486 00	201 00	27	12	17	1,154	687 00
	3,122	3,164	$1,944 00	$1,292 25	108	54	126	6,286	$3,236 25

Week ending March 7th.	775	487	$486 00	$213 00	27	12	18	1,262	$699 00
" " 14th.	780	778	486 00	339 00	27	13	18	1,558	825 00
" " 21st..	749	648	486 00	387 00	27	13	21	1,397	873 00
" " 28th.	781	721	486 00	507 00	27	16	32	1,502	993 00
	3,085	2,634	$1,944 00	$1,446 00	108	54	89	5,719	$3,390 00
Week ending April 5th.	771	812	$486 00	$492 00	27	19	34	1,583	$978 00
" " 11th.	765	1,206	486 00	558 75	27	18	34	1,971	1,044 75
" " 18th.	746	782	486 00	426 75	27	14	32	1,528	912 75
" " 25th.	745	723	486 00	421 50	27	15	30	1,468	907 50
	3,027	3,523	$1,944 00	$1,899 00	108	66	130	6,550	$3,843 00
Week ending May 2d	727	756	$405 00	$361 50	27	13	21	1,483	$766 50
" " 9th...	718	674	405 00	360 00	27	13	21	1,392	765 00
" " 16th...	687	443	405 00	222 00	27	13	21	1,130	627 00
" " 23d ..	671	403	405 00	201 00	27	12	20	1,074	606 00
" " 30th...	671	413	405 00	210 00	27	13	20	1,084	615 00
	3,474	2,689	$2,025 00	$1,354 50	135	64	103	6,163	$3,379 50

TABLE A—Concluded.

FIFTH DISTRICT. JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c. Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed	Total amount of Expenditures
Week ending June 6th..	647	484	$405 00	$285 75	27	13	21	1,131	$609 75
" " 13th..	659	484	405 00	285 75	27	13	21	1,143	609 75
" " 20th..	589	665	405 00	358 50	27	13	20	1,254	763 50
" " 27th..	588	531	405 00	377 25	27	12	21	1,119	782 25
	2,483	2,164	$1,620 00	$1,307 25	108	51	83	4,647	$2,927 25
Week ending July 4th...	472	630	$405 00	$387 75	27	13	20	1,102	$792 75
" " 11th...	553	600	405 00	397 50	27	13	20	1,153	802 50
" " 18th...	549	758	486 00	393 75	27	13	20	1,307	879 75
" " 25th...	560	720	486 00	390 00	27	13	20	1,280	876 00
	2,134	2,708	$1,782 00	$1,569 00	108	52	80	4,842	$3,351 00

Week ending August 1st.	598	850	$486 00	$411 00	27	14	23	1,448	$897 00
" " 8th.	520	713	486 00	403 50	27	14	23	1,233	889 50
" " 15th.	661	899	486 00	412 50	27	14	22	1,560	898 50
" " 22d ..	681	729	486 00	361 50	27	14	22	1,410	847 50
" " 29th.	716	755	486 00	324 00	27	13	22	1,471	810 00
	3,176	3,946	$2,430 00	$2,912 50	135	69	112	7,122	$4,342 50
Week ending Sept. 5th.	732	860	$486 00	$369 75	27	13	23	1,592	$855 75
" " 12th.	706	837	486 00	357 00	27	14	20	1,543	843 00
" " 19th.	668	713	486 00	340 50	27	13	20	1,381	826 50
" " 26th.	645	676	486 00	342 00	28	13	20	1,321	828 00
	2,751	3,086	$1,944 00	$1,409 25	109	53	83	5,837	$3,353 25
Week ending Oct. 3d ...	625	696	$486 00	$333 00	27	12	20	1,321	$819 00
" " 10th...	522	740	486 00	348 00	27	12	20	1,262	834 00
" " 17th...	606	730	486 00	349 50	27	12	24	1,343	835 50
" " 24th...	592	807	405 00	378 00	27	12	20	1,399	783 00
" " 31st....	651	714	405 00	341 25	27	12	20	1,365	746 25
	2,996	3,694	$2,268 00	$1,749 75	135	60	104	6,690	$4,017 75

A. E. SMYRK, *Assistant Commissioner of Health.*

TABLE B.

Monthly Report of work done in Street and Garbage Department in the various Districts, from January 1st, 1879, to October 31st inclusive; showing amount of money expended in each District, and average number of men and carts employed by each Superintendent.

FIRST DISTRICT. B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures
January	1,800	4,490	$1,008 00	$2,039 25	14	15	34	6,290	$3,047 25
February	1,775	4,168	1,008 00	1,909 50	14	15	34	5,943	2,917 50
March	2,384	5,088	1,314 00	1,923 00	14	13	22	7,472	3,237 00
April	2,149	4,478	1,035 00	1,862 60	15	14	30	6,627	2,897 60
May	1,730	2,426	900 00	1,138 50	15	13	25	4,156	2,038 50

June	2,517	2,653	1,125 00	1,410 00	15	15	28	5,170	2,535 00
July	1,778	2,602	990 00	1,254 75	15	11	18	4,380	2,244 75
August	1,823	2,742	1,080 00	1,581 75	15	17	20	4,565	2,661 75
September	2,296	3,034	1,350 00	1,335 75	15	9	13	5,330	2,685 75
October	1,715	2,441	990 00	1,131 00	15	10	15	4,156	2,121 00
	19,967	34,122	$10,800 00	$15,586 10				54,089	$26,386 10

Expenditures for dumps	$569 92	
" " tools and incidentals	305 06	
		874 98
		$27,261 08

TABLE B—Continued.

SECOND DISTRICT. THOS. KERNAN, Sup't	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed.	Total amount of Expenditures.
January	1,648	2,913	$1,296 00	$1,548 00	18	11	29	4,561	$2,844 00
February	1,601	2,732	1,296 00	1,435 50	18	11	19	4,333	2,731 50
March	1,591	2,193	1,296 00	1,620 75	18	12	19	3,784	2,916 75
April	2,130	2,849	1,566 00	2,356 50	18	15	27	4,979	3,922 50
May	1,610	1,063	1,080 00	1,130 25	18	12	19	2,673	2,210 25
June	1,761	1,024	1,080 00	1,052 25	18	12	19	2,785	2,132 25
July	2,231	1,755	1,104 00	1,553 25	18	12	19	3,986	2,957 25

August	2,044	1,480	1,296 00	1,257 50	18	13	16	3,524	2,553 50
September	2,572	1,286	1,620 00	1,212 20	18	8	12	3,858	2,832 20
October	1,812	1,271	1,188 00	1,155 00	18	10	14	3,083	2,343 00
	19,000	18,560	$13,122 00	$14,321 20				37,566	$27,443 20

Expenditures for dumps	$569 92	
" " tools and incidentals	305 06	
		874 98
		$28,318 18

TABLE B—Continued.

THIRD DISTRICT.

MICHAEL FADGEN, Sup't.

	Garbage and Ashes Removed.	Street Dirt, Sand, &c. Removed.	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed	Total amount of Expenditures.
January.....	2,400	2,584	$1,224 00	$1,875 75	17	12	32	4,984	$3,099 75
February.....	2,397	2,078	1,224 00	1,581 75	17	12	31	4,475	2,805 75
March.....	2,387	1,978	1,224 00	1,499 25	17	11	22	4,365	2,723 25
April.....	2,777	3,362	1,479 00	2,337 75	17	12	31	6,139	3,816 75
May.....	2,091	1,178	1,065 00	1,043 25	18	11	25	3,269	2,108 25
June.....	1,842	1,488	1,080 00	1,002 75	18	12	25	3,330	2,082 75
July.....	2,303	2,317	1,458 00	1,513 50	18	12	25	4,620	2,971 50

August	1,999	1,935	1,296 00	1,191 00	18	11	21	3,934	2,487 00
September	2,066	1,392	1,296 00	899 95	18	8	9	3,458	2,195 95
October	2,432	2,140	1,512 00	1,302 00	18	9	10	4,572	2,814 00
	22,694	20,452	$12,858 00	$14,246 95				43,146	$27,104 95

Expenditures for dumps	$562 92	
" " tools and incidentals	305 06	
		874 98
		$27,979 73

TABLE B—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
January	2,683	3,436	$1,800 00	$1,787 25	20	9	33	6,119	$3,587 25
February	2,133	2,293	1,440 00	1,270 50	20	9	23	4,426	2,710 50
March	2,171	2,009	1,440 00	1,369 50	20	9	23	4,180	2,809 50
April	2,121	1,830	1,440 00	1,483 61	20	9	27	3,951	2,923 61
May	2,387	1,862	1,500 00	1,434 75	20	9	21	4,249	2,934 75
June	1,744	1,554	1,200 00	1,162 98	20	9	21	3,298	2,362 98
July	2,018	2,292	1,680 00	1,690 88	20	9	21	4,310	3,370 88

August	2,027	1,744	1,441 00	1,345 10	20	9	22	3,771	2,786 10
September	1,773	2,008	1,440 00	1,273 50	20	9	18	3,781	2,713 50
October	1,985	2,393	1,680 00	1,650 25	20	9	21	4,378	3,330 25
	21,042	21,421	$15,061 00	$14,468 32				42,463	$29,529 32

Expenditures for dumps	$569 92	
" " tools and incidentals	305 06	
		874 98
		$30,404 30

TABLE B—Concluded.

FIFTH DISTRICT. JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
January	3,785	3,488	$2,430 00	$1,891 50	27	12	38	7,273	$4,321 50
February	3,122	3,164	1,944 00	1,292 25	27	13	31	6,286	3,236 25
March	3,085	2,634	1,944 00	1,446 00	27	13	22	5,719	3,390 00
April	3,027	3,523	1,944 00	1,899 00	27	15	32	6,550	3,843 00
May	3,474	2,689	2,025 00	1,354 50	27	13	21	6,163	3,379 50
June	2,483	2,164	1,620 00	1,307 25	27	12	20	4,647	2,927 25
July	2,134	2,708	1,782 00	1,569 00	27	13	20	4,842	3,351 00

August	3,176	3,946	2,430 00	1,912 50	27	13	24	7,122	4,342 50
September	2,751	3,086	1,944 00	1,409 25	27	14	20	5,837	3,353 25
October	2,996	3,694	2,268 00	1,749 75	27	12	20	6,690	4,017 75
	30,033	31,096	$20,331 00	$15,831 00				61,129	$36,162 00

Expenditures for dumps	$569 94	
" " tools and incidentals	305 07	
		875 01
		$37,037 01

RECAPITULATION.

DISTRICTS.	NAMES OF SUPERINTENDENTS.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Total amount of Loads Removed.	Total amount of Expenditures.
1st District...	B. V. Kelly.....	19,967	34,122	$10,800 00	$15,586 10	54,089	$27,261 08
2d " ...	Thos. Kernan..	19,000	18,566	13,122 00	14,321 20	37,566	28,318 18
3d " ...	Mich'l Fadgin.	22,694	20,452	12,858 00	14,246 95	43,146	27,979 93
4th " ...	Louis Kroeger.	21,042	21,421	15,061 00	14,468 32	42,463	30,404 30
5th " ...	John Meagher.	30,033	31,096	20,331 00	15,831 00	61,129	37,037 01
		112,736	125,657	$72,172 00	$74,453 57	238,393	$151,000 50

Total number of loads removed for 10 months, 238,393; cost of same, $151,000.50; average cost per load, 63 cents.

Total amount of money received, for 10 months ending October 31st, 1879, and paid to City Comptroller, for refuse sold, $2,283.11.

A. E. SMYRK, *Assistant Commissioner of Health.*

TABLE C.

Weekly Reports, showing amount of work done and number of men employed in the several Districts; also amount of money expended for same, for 2 months ending December 31st, 1879.

FIRST DISTRICT. — B. V. KELLY, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures
Week ending Nov. 1st...	443	600	$225 00	$306 00	15	11	18	1,043	$531 00
" " 8th..	420	620	225 00	309 00	15	12	16	1,040	534 00
" " 15th..	421	585	225 00	306 75	15	10	19	1,006	531 75
" " 22d ...	459	585	225 00	308 25	15	10	19	1,044	533 25
	1,743	2,390	$900 00	$1,230 00	60	43	72	4,133	$2,130 00
Week ending Dec. 1st....	467	490	$225 00	$268 00	15	8	13	957	$493 00
" " 6th...	418	555	225 00	264 00	15	9	13	973	489 00
" " 13th...	469	509	225 00	252 00	15	10	16	978	477 00
" " 20th...	473	512	225 00	303 00	15	13	20	985	528 00
" " 27th....	496	570	225 00	301 50	15	11	21	1,066	526 50
	2,323	2,636	$1,125 00	$1,388 50	75	51	83	4,959	$2,513 50

JAMES F. McSHANE, M. D, *Assistant Commissioner of Health.*

TABLE C—CONTINUED.

SECOND DISTRICT. THOS. KERNAN, SUP'T.	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed	Total amount of Expenditures.
Week ending Nov. 2d	424	410	$270 00	$345 00	18	12	19	834	$615 00
" " 10th...	408	415	270 00	361 50	18	13	18	823	631 50
" " 17th...	412	360	270 00	327 75	18	12	19	772	597 75
" " 24th...	406	384	270 00	342 75	18	12	18	790	612 75
	1,650	1,569	$1,080 00	$1,377 00	72	49	74	3,219	$2,457 00
Week ending Dec. 1st....	410	263	$270 00	$214 50	18	10	17	673	$484 50
" " 8th...	402	279	270 00	284 25	18	11	9	681	554 25
" " 15th...	416	299	270 00	264 00	18	12	17	715	534 00
" " 22d	399	263	270 00	260 25	18	11	19	662	530 25
" " 29th...	398	130	270 00	210 75	18	11	34	528	480 75
	2,025	1,234	$1,350 00	$1,233 75	90	55	96	3,259	$2,583 75

JAMES F. McSHANE, M. D, *Assistant Commissioner of Health.*

TABLE C—CONTINUED.

THIRD DISTRICT. — MICHAEL FADGIN, SUP'T	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed	Total amount of Expenditures.
Week ending Nov. 5th...	490	534	$270 00	$324 00	18	11	14	1,024	$594 00
" " 12th...	469	482	270 00	288 00	18	9	14	951	558 00
" " 19th...	491	454	270 00	281 25	18	9	14	945	551 25
" " 26th...	631	424	270 00	241 50	18	8	12	1,055	511 50
	2,081	1,894	$1,080 00	$1,134 75	72	37	54	3,975	$2,214 75
Week ending Dec. 3d....	538	384	$270 00	$250 50	18	8	12	922	$520 50
" " 10th...	551	360	270 00	252 75	18	8	13	911	522 75
" " 17th...	563	376	270 00	252 75	18	9	14	939	522 75
" " 24th...	578	355	270 00	252 00	18	9	13	933	522 00
" " 31st....	609	401	270 00	252 00	18	10	14	1,010	522 00
	2,839	1,876	$1,350 00	$1,260 00	90	44	66	4,715	$2,610 00

JAMES F. McSHANE, M. D., *Assistant Commissioner of Health.*

TABLE C—CONTINUED.

FOURTH DISTRICT. LOUIS KROEGER, SUP'T.	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures
Week ending Nov. 6th...	439	504	$300 00	$372 00	20	9	24	943	$672 00
" " 13th...	447	611	300 00	357 75	20	9	24	1,058	657 75
" " 20th...	471	412	300 00	338 25	20	9	22	883	638 25
" " 27th...	493	321	300 00	283 13	20	9	22	814	583 13
	1,850	1,848	$1,200 00	$1,351 13	80	36	92	3,698	$2,551 13
Week ending Dec. 4th...	500	409	$300 00	$312 38	20	9	21	909	$612 38
" " 11th...	494	424	300 00	331 13	20	9	21	918	631 13
" " 18th...	502	462	300 00	282 00	20	9	22	964	582 00
" " 24th...	495	478	300 00	366 75	20	9	23	973	666 75
" " 31st....	529	315	300 00	268 00	20	9	22	844	568 00
	2,520	2,088	$1,500 00	$1,560 26	100	45	109	4,608	$3,060 26

JAMES F. McSHANE, M. D., *Assistant Commissioner of Health.*

TABLE C—CONCLUDED.

FIFTH DISTRICT. — JOHN MEAGHER, SUP'T.	Garbage and Ashes Removed.	Street Dirt, Sand, &c, Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending Nov. 7th...	696	795	$405 00	$381 00	27	12	21	1,491	$786 00
" " 14th...	735	803	405 00	315 75	27	12	24	1,538	720 75
" " 21st ...	730	705	405 00	345 00	27	12	22	1,435	750 00
" " 28th...	672	664	405 00	327 75	27	12	23	1,336	732 75
	2,833	2,967	$1,620 00	$1,369 50	108	48	90	5,800	$2,989 50
Week ending Dec. 5th...	802	643	$405 00	$308 25	27	12	21	1,445	$713 25
" " 12th...	811	734	405 00	351 00	27	12	24	1,545	756 00
" " 19th...	813	738	405 00	318 75	27	12	22	1,551	723 75
" " 26th...	825	612	405 00	306 75	27	12	22	1,437	711 75
	3,251	2,727	$1,620 00	$1,284 75	108	48	89	5,978	$2,904 75

JAMES F. McSHANE, M. D., *Assistant Commissioner of Health*

TABLE D.

Monthly Reports of work done in Street and Garbage Department in the various Districts, from November 1st to December 31st, 1879, inclusive; showing amount of money expended in each District, and average number of men and carts employed by each Superintendent.

FIRST DISTRICT. B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed	Total amount of Expenditures
November	1,743	2,390	$900 00	$1,230 00	15	11	18	4,133	$2,130 00
December	2,323	2,636	1,125 00	1,388 50	15	10	16	4,959	2,513 50
	4,066	5,026	$2,025 00	$2,618 50				9,092	$4,643 50
Expenditures for dumps								$110 80	
" " tools and incidentals								75 39	
									186 19
									$4,829 69

TABLE D—Continued.

SECOND DISTRICT. THOS. KERNAN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
November	1,650	1,569	$1,080 00	$1,377 00	18	12	18	3,219	$2,457 00
December	2,025	1,234	1,350 00	1,233 75	18	11	19	3,259	2,583 75
	3,675	2,803	$2,430 00	$2,610 75				6,478	$5,040 75
Expenditures for dumps								$110 80	
" " tools and incidentals								75 39	
									186 19
									$5,226 94

TABLE D—Continued.

THIRD DISTRICT. MICHAEL FADGIN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c. Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed	Total amount of Expenditures
November	2,081	1,894	$1,080 00	$1,134 75	18	9	13	3,975	$2,214 75
December.....	2,839	1,876	1,350 00	1,260 00	18	9	13	4,715	2,610 00
	4,920	3,770	$2,430 00	$2,394 75				8,690	$4,824 75
Expenditures for dumps.....								$110 80	
" " tools and incidentals.....								75 39	
									186 19
									$5,010 94

TABLE D—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed	Total amount of Expenditures.
November	1,850	1,848	$1,200 00	$1,351 13	20	9	23	3,698	$2,551 13
December	2,520	2,088	1,500 00	1,560 26	20	9	22	4,608	3,060 26
	4,370	3,936	$2,700 00	$2,911 39				8,306	$5,611 39
Expenditures for dumps								$110 80	
" " tools and incidentals								75 39	
									186 19
									$5,797 58

TABLE D—Concluded.

FIFTH DISTRICT. JOHN MEAGHER, Sup't.	Garbage and Ashes Removed	Street Dirt, Sand, &c. Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed	Total amount of Expenditures
November	2,833	2,967	$1,620 00	$1,369 50	27	12	22	5,800	$2,989 50
December.....	3,251	2,727	1,620 00	1,284 75	27	12	22	5,978	2,904 75
	6,084	5,694	$3,240 00	$2,654 25				11,778	$5,894 25
Expenditures for dumps.....								$110 80	
" " tools and incidentals.....								75 39	
									186 19
									$6,080 44

RECAPITULATION.

DISTRICTS.	NAMES OF SUPERINTENDENTS.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Total amount of Loads Removed	Total amount of Expenditures.
1st District...	B. V. Kelly.....	4,066	5,026	$2,025 00	$2,618 50	9,092	$4,829 69
2d " ...	Thos. Kernan..	3,675	2,803	2,430 00	2,610 75	6,478	5,226 94
3d " ...	Mich'l Fadgin.	4,920	3,770	2,430 00	2,394 75	8,690	5,010 94
4th " ...	Louis Kroeger.	4,370	3,936	2,700 00	2,911 39	8,306	5,797 58
5th " ...	John Meagher.	6,084	5,694	3,240 00	2,654 25	11,778	6,080 44
		23,115	21,229	$12,825 00	$13,189 64	44,344	$26,945 59

Total number of loads removed for 2 months, 44,344; cost of same, $26,945.59; average cost per load, $60\frac{3}{4}$ cents.

Total amount of money received, for 2 months ending December 31st, 1879, and paid to City Comptroller, for refuse sold, $579.05.

Total amount of money expended of street and garbage appropriation for 2 months ending December 31st, 1879, $27,560.59.

RECAPITULATION—Continued.

Total amount of work done in the Street and Garbage Department, from January 1st to December 31st, 1879; also amount of money expended for same.

	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c	Total amount of Loads Removed.	Total amount of Expenditures.
For 10 months ending October 31st	112,736	125,657	$72,172 00	$74,453 57	238,393	$151,000 50
For 2 months ending December 31st	23,115	21,229	12,825 00	13,189 64	44,344	26,945 59
	135,851	146,886	$84,997 00	$87,643 21	282,737	$177,946 09

By resolution of City Council, No. 251, approved October 27th, 1879, six hundred and fifteen dollars were paid out of street and garbage appropriation for the cleansing of public school privies.

RECAPITULATION—Concluded.

Total amount of loads removed from January 1st to December 31st, 1879, 282,737.

Cost of same	$177,946 09
Amount expended for cleansing public school privies	615 00
Total amount of street and garbage appropriation expended	$178,561 09

Average cost of removing garbage, street dirt, sand, ice, snow, &c., 62 cents per load, for the fiscal year ending December 31st, 1879.

Amount of annual appropriation for street and garbage	$180,000 00
Amount expended for street and garbage	178,561 09
Balance returned to City Comptroller	$1,438 91

Total amount of money received for 10 months ending October 31st, 1879, and paid to City Comptroller, for refuse sold	$2,283 11
Total amount of money received for 2 months ending December 31st, 1879, and paid to City Comptroller, for refuse sold	579 05
	$2,862 16

JAMES F. McSHANE, M. D.,
Assistant Commissioner of Health.

TABLE E.

Table showing amount of Animal and Vegetable Garbage delivered to Contractors at Canton.

MONTHS.	CANTON DUMP.	GARBAGE.	MARKETS.	TOTAL.
January ...	J. Holdefer, Sup't....	149½	98	247½
February..	" "	170½	115	285½
March... ...	" " . ..	254¾	146	400¾
April.	" "	236¼	105	341¼
May	" "	538½	174	712½
June.	" "	644½	183	827½
July..	" "	666¼	185	851¼
August.. ...	" "	1,795½	278	2,073½
September	" "	1,228½	234	1,462½
October ...	" " . .	759¾	200	959¾
November	" "	532¾	175	707¾
December.	" " ...	329	142	471
		7,305¾	2,035	9,340¾

TABLE E—Concluded.

Table showing amount of Animal and Vegetable Garbage delivered to Contractors at Spring Garden.

MONTHS.	SPRING GARDEN DUMP.	GARBAGE.	MARKETS.	TOTAL.
January ...	E. Pumphrey, Sup't.	99½	67	166½
February..	" " .	144¼	78	222¼
March.....	" " .	178½	70	248½
April.	" " .	223¼	30	253¼
May.....	" " .	730¾	132	862¾
June.....	" " .	842	141	1,023
July..	" " .	1,043	170	1,213
August.....	" " .	3,321¾	300	3,621¾
September	" " .	2,416	223	2,639
October ...	" " .	1,413	156	1,569
November	" " .	855¾	96	951¾
December.	" " .	507½	60	567½
		11,775¼	1,563	13,338¼

Total number of loads delivered at Canton and Spring Garden dumps, 22,679; amount of money paid contractors for removal of animal and vegetable garbage, $13,500; cost per load, 59½ cents.

JAMES F. McSHANE, M. D.,
Assistant Commissioner of Health.

TABLE F.

Annual Report of the Health Department of complaints and notices, orders, &c, issued, with the number of official letters written and received, for the fiscal year ending December 31st, 1879.

Number of complaints made	17,062
Notices issued to clean privies	13,266
" " " yards	815
" " " cellars	545
" " to grade and pave alleys	506
" " " drain or fill lots	283
Total number of notices issued	15,416
Number of nuisances examined by Health Officers and Sanitary Inspectors of this office	2,993
Number of official letters written	466
" letters received	575
" special permits issued to open sinks	14,703

JAMES F. McSHANE, M. D,

Assistant Commissioner of Health.

TABLE G.

Inventory of tools, implements, horses, wagons and carriages belonging to the Health Department.

Number of scrapers	148
" " picks	122
" " brooms and handles	141
" " broom handles	80
" " long handle shovels	46
" " short handle shovels	49
" " crow-bars	12
" " keys for plugs	2
" " lanterns	2
" " wheelbarrows	4
" " windlasses	2
" " windlass buckets	4
" " scoops	1
" " iron rakes	2
" " ladders	1
" " sickles	4
" " feet of gas pipe	70
" " wrenches	2
" " iron rollers	4
" " nets	16
" " wagons	4
" " horses	1
" " carriages	1
" " sets of harness	1
" " barrels of Carbolate of Lime	3½
" " barrels of Hypochlorite of Soda	4½

JAMES F. McSHANE, M. D.,
Assistant Commissioner of Health.

REPORT

OF THE

RESIDENT PHYSICIAN

AT THE

MARINE HOSPITAL.

REPORT.

MARINE HOSPITAL,

PORT OF BALTIMORE, December 31, 1879.

To the Honorable the Mayor

and City Council of Baltimore.

GENTLEMEN:

I have the honor to submit the Report of the Quarantine Station for the Port of Baltimore, and of the Marine Hospital, for the year ending December 31, 1879.

I would again respectfully call attention to the fact that the term *Marine Hospital*, as applied to the Quarantine Station of the Port, and the Pest Hospital of the City, conveys erroneous ideas of the nature of the place and the duties appertaining thereto, and suggest that a more suitable title be adopted.

The growing commerce of the city constantly enlarges the sphere of my duties; and, as will appear in the appended tables (Tables I and II), the number of vessels inspected during the past year was considerably greater than for the preceding, and the amount of money collected and paid into the city treasury pro-

portionately increased. During the past five years this increase has been as follows:

Year.	Vessels Inspected.	Money Collected.
1875	754	$4,365 53
1876	815	5,515 47
1877	876	5,672 79
1878	1,166	8,663 37
1879	1,251	9,888 09

Owing to the ravages of yellow fever in the Mississippi Valley during the past two years, and from the general belief that a like visitation may occur in any portion of the United States, public attention has recently been powerfully drawn to the consideration of questions relating to quarantine, and much discussion has been had as to the proper methods of its administration. It seems to be pretty generally admitted that yellow fever epidemics in the United States are always of imported origin, and that a quarantine which amounts, practically, to an absolute non-intercourse with tropical countries during the warm season, will give ample protection against them. But the problem, "what system of quarantine inspection at our ports will give us sufficient protection against yellow fever epidemics, with the least possible interference or tax upon commerce," is still awaiting solution.

Unfortunately our knowledge of the essential nature of yellow fever, and of the methods of its propagation, is so limited, and the views of Sanitarians are so insecurely based and diverse, that the quarantine administration of our ports is very largely dependent on the

individual opinions of the officers who happen to be in control, and we neither have uniformity nor safety.

Quite recently a committee of the National Board of Health visited Baltimore for consultation with the Board of Trade and the authorities, as to the desirability of extending to this city the protection of a quarantine, which the Board purpose establishing near the mouth of the Chesapeake Bay, for the protection of Norfolk and the adjacent country. It was proposed that this station should not supercede the present quarantine system of this port, but should only deal with such vessels, bound to Baltimore, as were actually infected on arrival at the Capes. Inasmuch as opinions differ so widely as to what constitutes an "infected vessel," I apprehend serious embarrassments to our commerce might arise from this double quarantine. It has long been, and still is, my opinion that the General Government should take charge of the quarantine of the entire coast. I do not think we can ever have the proper uniformity of system or efficiency in administration as long as the maritime quarantine of the United States is subject to State and Municipal control; but until the Government is prepared to take entire charge of the quarantine of the country, and establish a general system of inspection at all of its chief ports, I could not advise that our present system be abandoned.

I am again constrained to call your attention to the defects and wants of our quarantine station.

As has been repeatedly urged, heretofore, the present quarantine station is too near the city. It should be at least four or five miles further removed. I would not

advise the construction of an expensive and elaborate quarantine station by the city at this time, or until it be seen what further steps the General Government may take in the matter; but I strongly recommend that a point further down the river be selected, and a simple and inexpensive, but comfortable, boarding station be located at once.

Whether the quarantine station be removed or not, I think this place might be retained for the City Pest Hospital, and for that purpose I recommend that improvements be made, and suitable wards and rooms furnished. There is always the greatest reluctance on the part of patients, affected with small-pox and such diseases, to entering a hospital; and it is but humane, as well as good policy, that the best possible accommodations should be offered to such as are taken, unwillingly, to the pest hospital of the city. Such persons should be provided with the most comfortable rooms and best attention. The grounds and buildings at this place are in the most dilapidated condition, and I urgently recommend that a suitable appropriation be made for putting them in at least decent condition. Two or three thousand dollars, judiciously expended, would, in my opinion, be ample for the purpose.

The number of patients treated at the hospital during the year has, fortunately, been very small. [Table IV.]

The cost of supporting the quarantine and hospital for the year has amounted to $14,996.91, as appears in Table IX, Report of the Health Commissioner.

Depending, as I have done, so little upon any mere routine system of inspection and supposed disinfection, and relying so largely, in the protection of the city,

upon a vigilant scrutiny of each incoming vessel, the duties of my assistant have been both arduous and responsible. These duties were discharged, during the past season by Dr. Wm. T. Councilman, in the most thorough and satisfactory manner.

To Capt. John L. Gibson, and each of the employees at the post, I am indebted for the most cheerful and efficient support.

Very respectfully,

Your obedient servant,

E. LLOYD HOWARD, M. D.,

Marine Hospital Physician.

TABLES.

TABLE I.

Showing the Number and Class of Vessels Boarded and Inspected for the Year ending December 31, 1879.

MONTHS.	Class of Vessels.					
	Steamships.	Ships.	Brigs.	Barks.	Schooners.	Total.
January	7	.....	.....	.....	.....	7
February	6	.....	1	1	.....	8
March	7	....	1	2	.....	10
April	8	.....	.....	2	.....	10
May	26	17	9	103	43	198
June	24	18	8	98	50	198
July	28	7	19	70	59	183
August	45	23	12	91	34	205
September	43	24	12	139	25	243
October	30	7	8	97	26	168
November	9	.....	1	.....	1	11
December	8	.....	1	.....	1	10
Total	241	96	72	603	239	1251

TABLE II.

Showing the Amount of Money Collected and Paid to the City Register for Quarantine Fees for the Year ending December 31, 1879.

MONTHS.	Class of Vessels.					
	Steam-ships.	Ships.	Brigs.	Barks.	Schrs.	Total.
January	$226 14					$226 14
February	187 70		2 13	$4 89		194 72
March	220 88		2 14	5 07		228 09
April	223 33			2 00		225 33
May	396 10	$188 41	$28 67	451 92	$104 96	1,170 06
June	401 54	187 79	22 11	616 24	117 79	1,345 47
July	419 30	70 81	62 12	441 37	155 50	1,149 10
August	744 74	269 01	35 62	574 58	86 26	1,710 21
September	680 61	263 42	30 58	853 70	65 01	1,893 32
October	437 41	77 03	26 11	632 60	70 70	1,243 85
November	251 65				2 00	253 65
December	246 01		2 14			248 15
Total	$4,435 41	$1,056 47	$211 62	$3,582 37	$602 22	$9,888 09

TABLE III.

Showing the Number of Vessels Detained at Quarantine, for Cleansing and Disinfection, for the Year ending December 31, 1879.

MONTHS.	CLASS OF VESSELS.					
	Steamships.	Ships.	Brigs.	Barks.	Schooners.	Total.
January						
February						
March				1		1
April				1		1
May	2			4	4	10
June	2		4	11	6	23
July	10		8	3	7	28
August	8		5	6	3	22
September	6		7	7	2	22
October	2		1	2		5
November			1			1
December						
Total	30		26	35	22	113

TABLE IV.

Showing the Number of Patients Received for the Year ending December 31, 1879.

DISEASES.	Remaining in Hospital January 1, 1879.	Received.	Discharged.	Died.	Remaining in Hospital December 31, 1879.
Diphtheria	1	.....	1	.....	.....
Yellow Fever	.....	2	1	1	.....
Syphilis (secondary)	.....	1	1	.....	.....
Variola (small-pox)	.....	1	.....	.....	1
* Doubtful	....	1	1	.....	.....
Total	1	5	4	1	1

* Eloped before the diagnosis was made.

ANNUAL REPORT

OF THE

CITY SOLICITOR

TO THE

Mayor and City Council of Baltimore,

FOR THE

Fiscal Year ending December 31, 1879.

REPORT.

BALTIMORE, January 2, 1880.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have the honor to submit, as required by ordinance, the following report of the present condition of the city's legal business, and of decisions made within the past year in cases affecting the city's interests. It will be seen that the results of the litigation of the year, so far as the city is concerned, have been highly favorable; and the dockets of the several Courts show a marked diminution in the number of new suits instituted against the corporation. In the Courts in which the city is represented by the City Counsellor, the following cases have been tried within the year:

In the Supreme Court of the United States, the case of *Guy vs. The Mayor and City Council*—an appeal from a judgment of Baltimore City Court enforcing payment of wharfage, as required by ordinance, upon goods

"not produced in the State of Maryland," landed at one of the city public wharves—has been argued, but not yet decided. This case is of importance, as involving the right of the city to discriminate in its wharfage charges, as provided by article 4, section 945, of the Code of Public Local Laws, between the products of the State of Maryland and those of other States. It is contended by the plaintiff in error that such discrimination is contrary to the Constitution of the United States.

In the Court of Appeals of Maryland, the following cases referred to in my last report as yet to be argued, or as having been argued, but not disposed of, have been finally decided, viz: The case of *Martin Sisson vs. The Mayor and City Council; Rose vs. The Mayor and City Council; Darling vs. The Mayor and City Council; Tinges vs. The Mayor and City Council,* and *Black vs. The Mayor and City Council*—in all of which the decisions appealed from were in favor of the city, and except in Black's case, were affirmed by the Court of Appeals. Also, the appeal cases of the *Mayor and City Council vs. Reitz; Mayor and City Council vs. Stoll; Mayor and City Council vs. Weatherby, and Mayor and City Council vs. Ritchie,* in which the decisions appealed from were adverse to the city, and in the two first-named cases were affirmed by the Court of Appeals, and in the other cases reversed. To these must be added the suit of the *State of Maryland vs. The Mayor and City Council,* to recover from the city an amount of money claimed to have been improperly disbursed by John R. Thompson, City Register, for bounties under the State law. In this case there were cross appeals from the judgment of the Superior Court

for $8,600 against the city, which judgment the Court of Appeals has affirmed. In Black's case, which was a suit for damages resulting, as claimed, from unreasonable delay in opening Presstman street under a former ordinance, the judgment of the Superior Court in favor of the city was reversed, and the case remanded for a new trial.

The cases of Catherine Reitz and Daniel Stoll were petitions for mandamus respectively—the former to compel the city to complete the acquisition of Federal Hill Park, as required by Act of Legislature, chapter 143, of 1878; and the other to compel the city to build, (in default of purchasing), in conjunction with the authorities of Anne Arundel county, a bridge over the Patapsco river at the foot of Light street, as directed by the Act of 1878, chapter 159. The constitutionality of these Acts of the Legislature, which was contested by the city, was affirmed by the Appellate Court in each case, and no alternative left the city but to comply with their provisions.

The questions involved in the other cases were fully stated in my last report.

In addition to the foregoing, the following cases in the Court of Appeals have been argued, but not yet decided, viz: The appeal of Kelly & Piet from a decree of the Circuit Court of Baltimore City refusing an injunction to restrain execution of the contract for last year's printing and stationery awarded to W. J. C. Dulany & Co.; the appeal of the *Mayor and City Council vs. C. C. O'Donnell,* in which a verdict of $1,000 damages was rendered against the city for injuries sustained by the plaintiff, as claimed, in consequence of the unsafe and

unguarded condition of West street, then undergoing repairs; and the appeal of Lewis McMurray from the decree of the Circuit Court refusing an injunction to restrain the construction of a pier by the city at the foot of Cross street, as authorized by ordinance. There yet remain upon the docket of the Court of Appeals to be argued at the present term, the appeals of *Alexander vs. Mayor and City Council*, from a judgment of the Court of Common Pleas for $316.60 due by the appellant for taxes upon shares in the George's Creek Coal and Iron Company; and of *Garritee vs. Mayor and City Council*—a suit for injury to property, as claimed, from operations of the Harbor Board, by dumping in the Patapsco river, and in which there was a verdict for the city.

In the Courts in which the city is represented by the City Solicitor, besides the two cases of Alexander and O'Donnell, above referred to and now pending in the Court of Appeals, the following cases have been tried within the year:

In the City Court, the suit of Edward Hanley to recover for injuries to horse and wagon from defective condition of bridge on Franklin street, near city limits, the jury gave a verdict of $120. In the same Court, in the case of the *State of Maryland, use of Julia Pierce*, to recover for death of plaintiff's husband, who was fatally burned by reason of the defective condition, as claimed, of a city gasoline lamp in front of his dwelling on McAleer's court, the evidence was conflicting, and the jury failed to agree. The case remains upon the docket of the Court.

In the case of *Ogle vs. The Mayor and City Council*—the suit of a contractor for tunnelling Harford run—in

which a balance of $4,234.40, with interest, was claimed to be due from the city, the jury gave a verdict of $815. In the case of *The Mayor and City Council vs. Gunther*, involving the constitutional question of the city's right to tax the defendant's property in certain shares in vessels registered at this port, the judgment of the Court was in favor of the city, and for the full amount of taxes claimed for the years 1873, 1874, 1875 and 1876. An appeal has been prayed for by the defendant.

In the Court of Common Pleas—the suit of Seligman Bernei to recover assessments for benefits for opening Wilkens avenue, claimed to have been paid in error, on certain lots sold by the Commissioners for Opening Streets and purchased by the plaintiff—the decision of the Court was adverse to the plaintiff's right to recover. The plaintiff therefore submitted to a judgment of *non pros* in favor of the city, but has since brought his suit anew in the City Court. In the suit of John and James Gregg to recover $30,000 damages, as claimed, for injury to the plaintiffs' tannery property on Centre and Holliday streets, resulting from the change in the grade of Centre street, authorized by Ordinance No. 131, of 1874, and which was on trial in the Common Pleas for several weeks, the jury gave a verdict for the city. The plaintiffs excepted to the rulings of the Court and have prayed an appeal.

In the case of *Hildebrandt vs. The Mayor and City Council*, which was also a contractor's suit to recover for extra work on Public School House No. 21, corner of Gilmor and Presstman streets, and in which the sum of $1,080, with three years' interest, was claimed to be due, the jury gave a verdict of $270, with interest.

At the September Term of the City Court the City Solicitor also succeeded in procuring the dismissal of or judgments for the city in *fourteen* cases which had been brought by purchasers of market stalls at sales claimed to be defective for want of authority on the part of the city or its Comptroller, to recover back the purchase money paid. A large number of Magistrate's appeals (cases arising under the city ordinances,) and appeals from the awards and assessments of the Commissioners for Opening Streets, which fall within the department of the City Solicitor, have also been tried within the year. The estimates of benefits and damages made by the Commissioners were generally affirmed by the juries before whom they have been tried. None of these cases require special mention, except the case of the appeals of Lucius C. Polk and others from the proceedings of the Commissioners in the matter of opening Covington avenue. The entire proceedings in this case were quashed by the Court upon the ground that the ordinance was defective and uncertain in requiring the street to be opened as laid down on Poppleton's plat, there being an apparent discrepancy between the distances given upon the plat and the distances between the boundary stones located upon the ground and also indicated upon the map. This variance the Court held to be fatal to any location of the street under the ordinance. Exclusive of street appeals and Magistrate's appeals, there are now pending upon the trial calendar of the Court of Common Pleas for the present January Term, three cases against the city; upon that of the City Court, three cases, and in the Superior Court, three cases. In the Circuit Court of

Baltimore City the suits of especial moment now pending are the suit of Whyte, guardian of Frederick M. Ketcham, to recover from the city the value of $19,500 of City Stock alleged to have been improperly transferred upon the Register's books upon forged signatures and powers of attorney; and the bill of Chauncey Brooks, Thomas G. Scharff and others, owners of property on Baltimore street, for an injunction to restrain the city from enforcing payment of assessments upon their property for the repaving of said street, between Harrison and Green streets, with the Belgian pavement. In both cases answers have been filed by the City Solicitor, and testimony is being taken preparatory to the argument of the cases and the submission of the important legal questions involved to judicial determination.

The majority of the cases now pending against the city are damage suits to recover for personal injuries claimed to have been sustained by reason of the defective condition of some of the city streets or sidewalks. The suit of Julia Pierce to recover for the death of her husband has been already referred to as having been tried once, but without result—the jury failing to agree; and the suit of Samuel Johnson to recover damages for want of proper medical care and attention, as claimed, at Bayview Asylum, and which was originally brought in the Superior Court, and resulted in a *non pros,* has been renewed at the last term in the Court of Common Pleas, and is now awaiting trial in that Court. Upon the whole however, there is a marked diminution in the number of suits of this description against the city; and the wise legislation of the City Council

at its last session, in requiring proper lights to be placed at all dangerous places and obstructions in the streets after nightfall, and exacting from all contractors with the city a bond to hold the city harmless from suits for any negligence on their part or that of their employees, will go far to prevent such cases arising in the future.

Respectfully submitted,

T. W. HALL,
City Solicitor.

ANNUAL REPORT

OF THE

CITY LIBRARIAN

TO THE

Mayor and City Council of Baltimore,

FOR THE

Fiscal Year ending December 31st, 1879.

REPORT.

BALTIMORE, January 2, 1880.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have the honor of presenting this the annual report of the City Librarian for the fiscal year ending December 31, 1879.

Many persons are taking advantage of the facilities offered by this office in looking up documents and papers of much value to themselves, and I am pleased to state that in nearly every instance the information desired has been obtained.

These documents are deposited in the rooms in the mansard story of the building, there not being sufficient room in the library proper.

As the rooms are kept locked, either the Librarian or his assistant is compelled to accompany every visitor. Much time is necessarily consumed in this way, and as it interferes with the work of arranging and classify-

ing books, documents, records, papers, &c., &c., which are now in the hands of the Librarian, and which will be greatly increased yearly, I would respectfully suggest that a moderate charge be allowed for such services. If the information is valuable to a person, there can be no objection to paying a fee; and it will furthermore prevent many who, from idle curiosity, consume time.

If sufficient force be employed to get the work entirely up, then the present force could not only attend to the business of the office, but keep in order what has already been accomplished, and arrange and classify all papers, &c., which would yearly come into the custody of the Librarian.

This suggestion is made only if it be considered really necessary to have the work brought up at once to the present time; if not, those now engaged cannot be able to accomplish it within the time that such an important work should be done.

The office is now so subjected to calls for information that could be easily obtained elsewhere, that really but little time is left to attend to the daily requirements.

I respectfully suggest that this be given consideration.

By Resolution No. 53, approved March 17, 1879, $480 was appropriated for the necessary shelving to accommodate the records in the rooms in the mansard story. This has been satisfactorily done.

Mr. John Cox, City Printer, delivered the copies of the City Code of 1879, as directed by Ordinance No. 83, approved June 23, 1878.

Resolution No. 184, approved May 30, 1879, authorized and directed the City Librarian to sell the City Code of 1879 at $5 per copy, to the number of 500 copies. I have disposed of sixteen (16) copies, seven (7) of which I had previously sold at $6 per copy. The amount of sales, eighty-seven dollars ($87), has been covered into the treasury.

The index to the Acts of Assembly relating to the Boundaries, Police and Regulations of the Town and City of Baltimore from 1729 to 1830 inclusive, has been finished, and one hundred copies of the same delivered by the City Printer to this office, per Ordinance No. 68, approved June 6, 1879.

Thirty-nine (39) books, consisting of ordinances and resolutions, Council Journals and Mayors' messages and reports, were received from the estate of the late Mendes I Cohen; also, one copy of ordinances and resolutions—1797–1801—from the Maryland Historical Society.

Our exchanges are beginning to assume creditable dimensions, and efforts are being made to still further increase them.

During the year quite an addition has been made to our reports. We now have the Mayors' messages complete from 1806 to the present time, and the Health Department reports from 1815, except those of 1818 and 1819. The researches among the great mass of old papers and documents—classifying the same; reading and often with difficulty deciphering manuscripts in bad condition and printed matter sometimes without dates, and arranging the same chronologically—proved to be a work of great magnitude; but it has been pur-

sued in the cheering hope that these valuable historic records might be rescued from oblivion, and in some substantial form be preserved among the archives of the city. I am happy to report that this important work has progressed to a fair extent.

In presenting a detailed statement, showing the actual cost of stationery and printed matter used by each department, I would call attention to the amount charged to the City Collector as compared to that of 1878, when it was $2,940.42. This was not on account of the cost of the various articles being less than last year, but was the result of proper care exercised by that department, ordering only what was necessary. In singling out the City Collector, no reflection is intended to be cast on any department.

In 1878, an appropriation of $10,000 was made for supplying stationery, &c., of which sum $6,974.59 was used; for 1879, but $7,000 was appropriated, of which $6,081.37 was used—showing a reduction of $893.28 in last year's expenses.

All of which is respectfully submitted.

SAM'L D. SMITH,

City Librarian.

Statement of Value of Stationery and Printed Matter used during the Fiscal Year.

City Commissioner	$ 188 67
Appeal Tax Court	122 98
General Superintendent Lamps, &c.	143 58
Harbor Board	171 34
City Register	158 84
Baltimore City Jail	165 04
Supervisors of Election	49 90
City Comptroller	240 32
Bayview Asylum	162 74
Mayor	175 04
Commissioners for Opening Streets	62 06
Law Department	44 00
Examiner of Titles	23 73
Harbor Master, 1st District	12 75
" 2d "	7 72
" 3d "	11 26
" 4th "	4 79
" 5th "	21 61
Superintendent City Hall	12 27
Clerk Centre Market	4 16
Health Department	1,263 87
Inspector of Buildings	40 64
City Collector	1,919 80
Clerk Fells Point Market	2 13
Amount carried forward	$5,009 24

Amount brought forward	$5,009 24
City Library	395 09
Fire Commissioners	622 72
Inspector of Gas and Illuminating Oils	54 32
Total amount of appropriation drawn	$6,081 37

Water Department	$1,243 46
Gunpowder Permanent Supply	209 43
Total	$1,452 89

ANNUAL REPORT

OF THE

Water Department,

TO THE

MAYOR AND CITY COUNCIL

OF BALTIMORE,

For the Year Ending December 31st, 1879.

Officers of the Water Board,

JANUARY 1st, 1880.

Commissioners.

HON. FERDINAND C. LATROBE, MAYOR,
Ex-Officio President.
GEORGE U. PORTER, *Secretary.*
JOHN F. HUNTER,
GEORGE P. THOMAS,
THOMAS BOND,
WM. A. FISHER,
N. RUFUS GILL.

Registrar's Department.

WM. L. SHARETTS, *Water Registrar.*
WM. F. SINCLAIR, *General Book-Keeper.*
JAMES A. MARRIAN, *Cashier.*
JAMES S. ETCHBERGER, *Clerk of Errors.*
GEORGE W. SHARETTS, *Ledger Clerk.*
E. J. EDWARDS, *Ledger Clerk.*
JAS. J. C. SCULLY, *Ledger Clerk.*
JNO. GIBSON, *Ledger Clerk.*
THOS. H. BLICK, *Clerk of Delinquents.*
BENJAMIN PRICE, *Collector.*
GEORGE A. COLEMAN. *Collector.*
GEORGE W. EMMERICH, *Hydrant Inspector.*

Engineer's Department.

JAMES CURRAN, *Water Engineer.*
ROBERT K. MARTIN, *Civil Engineer.*
RICHARD D. MURPHY, *Engineer's Clerk.*

REPORT.

OFFICE WATER DEPARTMENT, CITY HALL.

BALTIMORE, January, 1880.

To the Honorable the Mayor
and City Council of Baltimore:

The Commissioners, in fulfillment of the requirements of the ordinance providing for the "Water Board," herewith respectfully submit their report, exhibiting the operations of the department for the year ending with December 31st, 1879.

Annexed is shown the gross receipts and expenditures of the Board, and for what account the disbursements were made.

FINANCIAL.

We have received during the year from all sources.....	$1,460,369 18	
Less discount on 1879 rents...	23,835 41	
	$1,436,533 77	
Balance on hand January 1st, 1879.....	465,225 53	
Total amount at disposal of the Board during the year.		$1,901,759 30

Our disbursements during the same period have been—

For Gunpowder Permanent Supply	$838,387 26	
For 12 months interest on $8,621,200 Water Stock	403,960 00	
For working expenses	67,002 16	
For Permanent Supply distributing main	64,803 85	
For Lake Clifton	42,115 95	
For distributing main	33,934 03	
For Lake Roland (dredging)	23,797 24	
For pumps and fountains	1,814 35	
For fire plugs	1,703 58	
For water meters (new)	1,818 05	
For returned money	1,538 44	
For Gunpowder real estate	933 75	
For tools and fixtures	191 39	
For real estate	1,062 11	
	$1,483,062 16	

Leaving a balance to our credit, at the close of the year, as follows:

To credit of revenue account	293,848 48	
" " Gunpowder Permanent Supply	123,552 40	
" " Disbursem't account	30 00	
In hands of Water Registrar	1,266 26	
		$1,901,759 30

REVENUE ACCOUNT.

The net receipts of department, after deducting discounts, (amounting to $23,835.41, allowed on 1879 rents, for prompt payment,) were $553,877.27; being an increase, compared with the previous year, of $47,860.56. The Board has, from this revenue, been enabled to meet all the ordinary expenses for working the department, including $33,934.03 paid for distributing mains; $23,797.24 for dredging Lake Roland, and $3,517.93 for fire plugs and fountains. They have also paid $403,960 interest on $8,621,200 City Stock, issued for account of the city's water supply—embracing $5,000,000 issued for the cost of the old or present work, and the residue, $3,621,200, for work done on the new or permanent supply. As there remains but $378,800 more of the latter stock to be issued, there is no longer any doubt of the ability of the department—should its present revenue be maintained—of meeting the interest on the entire four millons authorized for the new works, and in advance of any return from this additional large supply.

The Board, however, in assuming the payment of the interest on this large amount of new and unproductive stock, have had to recall, for the present, their previous recommendation to the Council, for a revision and lower schedule of water rates, which, under existing circumstances, should, in their opinion, be deferred until the new works are completed, and in successful operation.

It is also deemed important, for the maintenance of the department during the next year, that its revenue should not only be increased, and all expenses kept at

the *minimum,* but that the City Council be earnestly appealed to for an appropriation to cover the costs of fire plugs, pumps and fountains, which, in the opinion of the Board, should be regularly levied for, instead of required to be borne out of the revenue derived by the Board from water takers, as has been the case for several preceding years.

Within the past year some important changes were effected, both in the Water or Mechanical Engineer's, and Registrar's offices; by which, it is believed by the Board, greater efficiency will be experienced, especially in the collection of bills in arrears due the department.

It gives the Board pleasure to inform your Honorable Body, that the whole chain of the city's water works—from Mount Royal reservoir to Lake Roland, and also, the Temporary Supply Pipe Line and Pump House, at Meridith's Ford—have all been kept in good condition, and without any extraordinary expenditure having been required on any portion of them during the past year.

PERMANENT SUPPLY.

By the report of the Civil Engineer, Mr. Robert K. Martin, it is shown that the several divisions of the new works are drawing to completion. The conduit from Lake Montebello to No. 2 shaft—a distance of six miles—is all finished; the shafts arched over and filled up. What remains to be done in the conduit or tunnel is the taking up of the bottom in section No. 1, between shafts 1 and 2, for a distance of 1750 feet, and arching up the same with brick.

It is worthy of note, in reference to this long line of tunnel work, as well as due to the engineering skill which directed it, that in the alignment and levels, in all cases they came out almost mathematically correct.

Lake Montebello and Gate House; Loch Raven; the dam and Gate House at Gunpowder, are all in a good state of forwardness; encouraging the hope upon the part of the Board, that the water of the Gunpowder will be introduced through these works by the close of 1880.

There were applicable, for the finishing of these works, on the 31st December, 1879, a cash balance of $123,552.40, with $378,800 of the four million loan remaining to be issued, which, in the opinion of the Chief Engineer, will be sufficient to complete the works above named, and leave something to be applied to Clifton reservoir and the distributing mains, neither of which were contemplated in the original appropriation of four millions.

CLIFTON RESERVOIR,

Which is deemed so necessary to ensure an abundant supply of pure water, by increasing the storage, was put under contract last July.

In the selection of site for same, on the Clifton property, the Board was met with a liberal public spirit on the part of the trustees of the Johns Hopkins University, which facilitated the work of the Engineer; and, when finished, this reservoir cannot but prove materially advantageous to the city and the university. Its depth will be 31 feet, and will contain 265,000,000 gallons. The land required was 30¼ acres.

The construction of this Reservoir was undertaken by the Board, out of any balance that may be remaining from the original appropriation of four millons of dollars, and the surplus of revenue to the credit of the department. This surplus, on the 1st of January, 18~9, was $384,245.38. During the year there were expended of it for account of Clifton Reservoir $42,115.95, and for Permanent Supply Distributing Mains $64,803.85. Reducing the surplus to the credit of revenue on the 31st of December past to $293,848.48.

DISTRIBUTING MAINS.

The 40 inch mains required to connect Clifton Reservoir with the city mains, are all on the ground waiting to be laid, about 2500 tons. Similar size mains have already been laid on Washington street, from Lanvale to Monument—two lines, one of which is to serve east of the Falls and the other west. The west pipe will turn at Lombard street, connecting with the arched pipe over the bridge which crosses the Falls, and continuing along Lombard to Gilmor street. The east pipe will advance south on Washington street to Eastern avenue. About 5500 tons in all of these mains were contracted for before the heavy advance in iron, the balance of the mains for distributing the Gunpowder supply, along the line as named above, are expected, with the approval of your Honorable Body, to be provided for within the resources at the disposal of the Board, and as favorable opportunity may be presented for supplying same, and which can in point of time, for entire completion, be extended over several years,

unless the urgent demand for water should require the work to be more speedily done.

In conclusion, the Board invites your attention to the accompanying reports of the chief officers of the department, furnishing more complete details of the business for the year 1879.

Respectfully submitted,

FERDINAND C. LATROBE,
Ex-Officio President.

GEORGE U. PORTER,
Secretary.

JOHN F. HUNTER,

GEORGE P. THOMAS,

THOMAS BOND,

WILLIAM A. FISHER,

N. RUFUS GILL,
Commissioners.

Water Registrar's Report.

REPORT.

OFFICE OF THE WATER REGISTRAR—CITY HALL.

Baltimore, December 31st, 1879.

To the Honorable the President
and Members of the Water Board.

GENTLEMEN:

In compliance with the provision of City Ordinance No. 10, section 8, entitled Water Ordinance, I respectfully submit to your Hon. Board of Commissioners for the Water Department the annual financial report of the Registrar's Department, with accompanying statistical tables exhibiting in detail under appropriate heads the amount collected from all sources during the year 1879; also, amount of proceeds received from sale of Water Loan of 1894, by the Finance Commissioners, and placed to the credit of this department, for the introduction of additional water supply from the Great Gunpowder Falls, and amount deposited with City Register, together with disbursements made, new supplies added, abatements made, monthly receipts, balances uncollected, statement of general ledger account, estimated revenue for the year 1880, and cash in hand and on deposit with City Register, for the fiscal year ending the thirty-first day of December, 1879.

In addition to the water rents received during the year of 1879, was, from the Commissioners of Finance, proceeds of sale of Water Loan of 1894, of $841,500, for the Permanent Water Supply account, aggregating	$882,656	50
The receipts from all sources during the year of 1879, from water rents, including dwellings, warehouses, offices, horses and carriages, hand-hose, bath-tubs, water closets, cows, and water through meter to beer breweries, fruit and oyster packers railroad companies, livery stables, sugar refineries, chemists, brick-yards, steamships and tugs, laundries, malt houses, boarding-houses, cattle-yards, white lead works, coal oil refineries, agricultural and other manufacturing establishments; and for plumbing work, Lake Roland, Hampton reservoir, Mount Royal reservoir, Druid Lake, real estate, aggregating	553,877	27
Nett receipts	$1,436,533	77
Add amount allowed for discount on bills of 1879	23,835	41
Gross receipts from all sources for the year 1879	$1,460,369	18

The disbursements made during the fiscal year of 1879, were as follows, viz: plumbing department, $9,352.92; salaries Registrar's Department, $14,599.72; repairs,

$4,719.52; salaries Engineer's Department, $9,056.64; pump house, $5,431.34; Lake Roland, $6,851.15; High Service reservoir, $776.01; Hampden reservoir, $144.64; Mount Royal reservoir, $177.53; Druid Lake, $2,866.30; water meter, $2,864.18; temporary supply, $4,564.64; current expenses, $3,738.76; printing and stationery, $1,585.97; telegraph line, $272.84—total for working expenses for the department, for 1879.....	$67,002 16
In addition to the above working expenses, there was disbursed during the year 1879: Gunpowder Permanent Supply, $838,387.26; twelve months' interest on $8,621,200 Water Loan, $403,960; Permanent supply distributing main, $64,803.85; Lake Clifton, $42,115.95; Distributing main, $33,934.03; Lake Roland dredging, $23,797.24; Fire-plugs, pumps and Fountains, $3,517.93; water meters, "new," $1,818.05; returned money, $1,538.44; Real estate, $1,062.11; Gunpowder real estate, $933.75; tools and fixtures, $191.39; amounting to.....	1,416,060 00
Total disbursements for the year 1879.	$1,483,062 16

The number of water meters in use and connected to premises of consumers of water, is four hundred and fifty-two; of this number one hundred and thirty-six are ¾ inch; one hundred and fifty-seven 1 inch; forty-

nine 1½ inch; thirty 2 inch; seventy-six 3 inch; four 4 inch—all of the Washington pattern.

I am gratified to be able to report to the Board an excess of revenue collected for year 1879, as compared with the year 1878, of $47,860.56, as will appear by reference to summary of receipts.

SUMMARY OF RECEIPTS FOR THE YEAR ENDING DECEMBER 31ST, 1879.

Received from water rents 1879.	$295,689 04	
" " " 1878.	142,810 40	
" " " 1877.	28,578 77	
" " " 1876.	8,365 91	
" " " 1875.	3,051 21	
Received from meter rents.....	64,230 86	
	$542,726 19	
Less discount on 1879 rents.....	23,835 41	
		$518,890 78
Received from plumbing department		23,493 63
Received from interest on back rents		6,815 61
Receivee from distributing main.....		2,148 94
Received from Gunpowder real estate.....		1,129 00
Received from Lake Roland....		205 31
Received from Hampden reservoir.....		60 50
Amount carried forward ..		$552,743 77

Amount brought forward..	$552,743 77
Received from Mount Royal reservoir	27 00
Received from Druid Lake	106 50
Received from real estate	1,000 00
	$553,877 27
Received from sale of 1894 five per cent. Water Stock	882,656 50
Net receipts	$1,436,533 77
Add amount allowed for discounts on 1879 rents	23,835 41
Gross receipts	$1,460,369 18

SUMMARY OF EXPENSES FOR THE YEAR ENDING DECEMBER 31ST, 1879.

Plumbing department	$9,352 92
Repairs	4,719 52
Salaries Registrar's Department	14,599 72
Salaries Engineer's Department	9,056 64
Pump house	5,431 34
Lake Roland	6,851 15
High Service reservoir	776 01
Hampden reservoir	144 64
Mount Royal reservoir	177 53
Druid Lake	2,866 30
Water meters	2,864 18
Amount carried forward...	$56,839 95

Amount brought forward..	$56,839 95	
Temporary supply	4,564 64	
Current expenses	3,738 76	
Printing and stationery	1,585 97	
Telegraph line	272 84	
Working expenses		$67,002 16
Gunpowder permanent supply.		838,387 26
Twelve (12) months' interest on $8,621,200 Water Stock		403,960 00
Permanent supply distributing main		64,803 85
Lake Clifton		42,115 95
Distributing main		33,934 03
Lake Roland, (dredging,)		23,797 24
Fire plugs, pumps and fountains		3,517 93
Water meters, (new,)		1,818 05
Returned money		1,538 44
Real estate		1,062 11
Gunpowder real estate		933 75
Tools and fixtures		191 39
		$1,483,062 16

Statement A exhibits the Water Registrar's cash account.

Statement B exhibits the Water Registrar's disbursements.

Statement C shows trial balance general ledger to December 31st, 1879.

Statement D shows balance sheet general ledger to December 31st, 1879.

Statement E—this schedule exhibits monthly receipts of the Water Department for the year 1879.

Statement F—this statement shows the disbursements of the Water Department for the year 1879.

Statement G shows the new supplies added for the year 1879.

Statement H exhibits abatements made for the year 1879.

Statement I shows the estimated revenue for the year 1880.

Statement K exhibits the balances remaining on books uncollected.

Respectfully submitted,

WM. L. SHARETTS,

Water Registrar.

STATEMENTS.

STATEMENT A.

Water Registrar's Cash Account for the year 1879.

		DR.	CR.
To balance on hand December 31st, 1878		$1,666 99	
To water rents 1879	$295,689 04		
Less discount on 1879 rents	23,835 41		
		271,853 63	
To water rents 1878		142,810 40	
" " 1877		28,578 77	
" " 1876		8,365 91	
" " 1875		3,051 21	
To meter rents		64,230 86	
" plumbing department		23,493 63	
" interest on back rents		6,815 61	
" distributing main		2,148 94	
" Gunpowder real estate		1,129 00	
" Lake Roland		205 31	
" Hampden reservoir		60 50	
" Mount Royal reservoir		27 00	
" Druid Lake		106 50	
" real estate		1,000 00	
" sale of 5 per cent. Water Stock		882,656 50	
By amount deposited with City Register, from January 1st to December 31st, 1879			$1,436,934 50
By balance in hand December 31st, 1879			1,266 26
		$1,438,200 76	$1,438,200 76

STATEMENT B.

Water Registrar's Disbursement Account for the year 1879.

	DR.	CR.
To balance	$30 00	
" warrants on City Comptroller, from January 3d to December 26th, 1879	1,483,062 16	
By Gunpowder permanent supply		$838,387 26
" twelve (12) months' interest on Water Stock		403,960 00
" permanent supply distributing main		64,803 85
" Lake Clifton		42,115 95
" Distributing main		33,934 03
" Lake Roland		30,648 39
" salaries Registrar's office		14,599 72
" salaries Engineer's office		9,056 64
" plumbing department		9,352 92
" pump house		5,431 34
" repairs		4,719 52
" temporary supply		4,564 64
" water meters		4,682 23
" current expenses		3,738 76
" Druid Lake		2,866 30
" pumps and fountains		1,814 35
" fire plugs		1,703 58
" returned money		1,538 44
" printing and stationery		1,585 97
" real estate		1,062 11
" Gunpowder real estate		933 75
" High Service reservoir		776 01
" Hampden reservoir		144 64
" Mount Royal reservoir		177 53
" telegraph line		272 84
" tools and fixtures		191 39
" balance		30 00
	$1,483,092 16	$1,483,092 16

STATEMENT C.

DR. *Trial Balance General Ledger*

7	Real estate and water rights	$775,691 82
9	Construction of new works	2,775,551 95
28	Mayor and City Council	417,400 88
58	Water Registrar's cash account	1,266 26
85	" " disbursement account.	30 00
98	Permanent supply distributing main	64,803 85
104	Distributing main	1,619,975 24
124	Repairs	4,719 52
186	Fire plugs	8,861 17
198	Pumps and fountains	5,655 64
212	Water meters	26,521 52
220	Telegraph line	272 84
223	Lake Roland	30,443 08
233	Druid Lake	2,759 80
245	High Service reservoir	776 01
253	Hampden reservoir	84 14
259	Mount Royal reservoir	150 53
264	Tools and fixtures	5,419 32
267	Pump house	5,431 34
273	Temporary supply	4,564 64
284	Current expenses	3,738 76
290	Printing and stationery	1,585 97
295	Salaries Registrar's Department	14,599 72
297	" Engineer's "	9,056 64
302	Gunpowder permanent supply	3,582,577 60
312	Lake Clifton	42,115 95
319	Gunpowder real estate and water rights	240,634 21
320	Returned money	1,538 44
336	Discount on 1879 rents	23,961 26
		$9,670,188 10

STATEMENT C.

December 31*st*, 1879. CR.

2	City 6 per cent. Water Stock	$263,000 00
3	" 5 " "	8,358,200 00
4	Profit and loss	484,047 09
157	Plumbing department	14,140 71
364	Water rents 1879	296,947 54
393	" " 1878	142,810 40
431	" " 1877	28,578 77
462	" " 1876	8,365 91
491	" " 1875	3,051 21
560	Meter rents	64,230 86
596	Interest on back rents	6,815 61
		$9,670,188 10

STATEMENT D.

DR. *Balance Sheet General Ledger*

7	Real estate and water rights	$775,691 82
9	Construction of new works	2,775,551 95
28	Mayor and City Council	417,400 88
58	Water Registrar's cash account	1,266 26
85	" " disbursement account.	30 00
98	Permanent supply distributing main	64,803 85
104	Distributing main	1,619,975 24
212	Water meters	20,000 00
264	Tools and fixtures	5,000 00
302	Permanent supply	3,582,577 60
312	Lake Clifton	42,115 95
319	Gunpowder real estate and water rights	240,634 21
		$9,545,047 76

STATEMENT D.

January 1st, 1880. Cr.

2	City 6 per cent. Water Stock	$263,000 00
3	" 5 " "	8,358,200 00
4	Profit and loss	923,847 76
		$9,545,047 76

STATEMENT "E."

Receipts of the Water Department for the year 1879.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals
Water Rents 1879	$47,813 65	$155,193 96	$26,250 64	$7,236 11	$7,255 52	$5,306 32	$5,488 41	$4,724 09	$6,658 33	$5,809 46	$6,224 95	$17,727 60	$295,689 04
" 1878	20,514 57	14,748 09	12,049 51	12,571 81	22,520 41	25,411 94	18,035 87	5,337 36	2,583 96	2,335 34	4,462 78	2,238 76	142,810 40
" 1877	1,702 61	1,421 15	1,747 39	3,023 53	4,215 83	5,843 55	4,216 61	1,364 32	1,045 91	971 92	2,319 09	706 86	28,578 77
" 1876	694 87	503 18	536 08	642 29	1,019 91	1,912 73	914 92	261 08	407 42	179 00	1,093 43	201 00	8,365 91
" 1875	114 00	155 16	157 67	185 33	249 25	1,031 00	266 30	93 00	162 00	28 50	604 00	5 00	3,051 21
Meter Rents	16,719 87	40 41	37 00	15,145 44	29 17	268 44	15,326 47	37 33	353 62	16,117 50	145 06	70 55	64,230 86
Plumbing Department	953 36	865 66	4,623 17	3,438 05	1,803 16	1,543 92	3,477 66	1,789 36	1,339 97	1,403 83	1,041 03	1,214 48	23,493 63
Distributing Main	12 00	6 00	130 15	6 00	519 95	151 96	284 47	220 43		12 00	273 26	532 72	2,148 94
Real Estate			1,000 00										1,000 00
Druid Lake	72 50										34 00		106 50
Gunpowder Real Estate	26 00		250 00						250 00			603 00	1,129 00
Lake Roland	32 09			55 55			10 00		12 72		47 45	47 50	205 31
Hampden Reservoir				6 00	1 50		30 00	3 00		20 00			60 50
Mount Royal "								17 00		10 00			27 00
Interest on Back Rents	208 16	260 68	341 53	536 16	979 19	1,499 12	1,141 79	376 59	307 27	241 01	684 27	239 84	6,815 61
	$88,863 68	$173,194 29	$47,123 14	$42,846 27	$38,593 89	$42,908 98	$49,192 50	$14,223 56	$13,121 20	$27,128 56	$16,929 32	$23,587 29	$577,712 68
Received from sale of ($841,500.00, 1894, 5 per cent.) Water Stock for Permanent Supply													882,656 50
Total Receipts for the year													**$1,460,369 18**

STATEMENT "F."

Disbursements of the Water Department for the year 1879.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Gunpowder Permanent Supply	$56,239 37	$47,230 96	$52,630 19	$53,736 59	$74,935 99	$58,782 06	$81,261 39	$71,286 81	$113,818 30	$58,834 84	$77,520 65	$92,110 11	$838,387 26
Permanent Supply Distributing Main								16,474 76	12,091 57	13,627 90	14,383 81	8,225 81	64,803 85
Lake Clifton					691 33	449 15	31,509 71	50 21	274 32	1,186 67	3,091 29	4,863 27	42,115 95
Distributing Main	3,663 83	554 82	2,227 65	3,396 25	3,114 99	1,012 43	3,197 83	911 18	1,370 15	791 66	2,522 34	11,170 90	33,934 03
Lake Roland	1,201 51	130 01	16 22	1,330 01	2,271 71	4,024 54	3 193 77	3,716 74	7,946 79	1,990 80	2,169 88	2,656 41	30,648 39
Salaries Registrar's Department	1,183 31	1,183 31	1,183 31	1,183 31	1,183 31	1,183 31	1,183 31	1,183 31	1,283 31	1,283 31	1,283 31	1,283 31	14,599 72
" Engineer's "	758 33	758 33	758 33	758 33	758 33	758 33	758 33	759 01	714 33	758 33	758 33	758 33	9,056 64
Plumbing Department	167 73	501 08	635 02	867 25	1,084 84	786 90	1,039 34	984 70	800 62	984 27	951 23	549 94	9,352 92
Pump House	1,547 41	597 23	97 02	84 72	61 80	51 84	1,067 88	690 10	89 20	76 41	303 63	782 28	5,431 34
Repairs	948 83	812 76	406 11	219 78	412 97	265 15	328 35	257 83	261 64	268 06	253 50	284 54	4,719 52
Temporary Supply	135 50	135 00	135 00	135 00	135 00	154 95	192 57	703 54	176 06	1,559 98	945 80	156 24	4,564 64
Water Meters	433 07	213 28	354 63	291 58	1,030 76	242 04	367 36	518 88	448 05	201 62	249 80	331 16	4,682 23
Current Expenses	240 74	297 85	340 34	333 75	371 12	270 31	267 33	572 81	188 55	292 07	276 62	287 27	3,738 76
Druid Lake	169 99	263 05	150 16	189 91	220 37	287 38	385 29	231 32	208 11	332 30	223 50	204 92	2,866 30
Pumps and Fountains	100 00	136 28	124 36	145 62	197 52	214 95	189 20	229 53	155 47	109 66	95 78	97 80	1,814 35
Fire Plugs	516 97	409 17	136 86	83 14	147 42	136 65	48 14	28 00	64 00	24 13	25 47	83 63	1,703 58
Returned Money	24 95	82 26	112 19	536 26	226 36	162 77	91 02	138 23	47 28	44 91	12 48	59 73	1,538 44
Printing and Stationery	91 72	15 50	189 82	27 75	315 13	22 05	174 53	62 25	92 72	19 75	69 10	505 65	1,585 97
Real Estate	140 00	240 00	288 12	183 91		24 75	140 00	40 00	3 73		1 60		1,062 11
Gunpowder Real Estate	36 75	13 50					7 00			700 00	79 50	97 00	933 75
High Service Reservoir	15 45			760 56									776 01
Hampden "	18			30 00	24 13	33 60	15 18	7 00	25 00	6 25	30	3 00	144 64
Mount Royal "			24 62	15 02	65 15	34 28	9 21		25 25	2 50	1 50		177 53
Telegraph Line	4 50	181 08	2 26									85 00	272 84
Tools and Fixtures	6 00	6 92	39 03	2 78	32 21	28 91	17 66	4 26	29 87	9 59	5 45	8 71	191 39
	$67,626 14	$53,762 39	$59,851 24	$64,311 52	$87,280 44	$68,926 35	$125,444 40	$98,850 47	$140,114 32	$83,105 01	$105,224 87	$124,605 01	$1,079,102 16
Paid Twelve (12) Months Interest on $8,621,200.00 Water Stock													403,960 00
Total Disbursements for the year													$1,483,062 16

STATEMENT G.

New Supplies for the year 1879.

381	Houses,	at $5 00...	$1,905 00	
314	"	" 7 50...	2,355 00	
310	"	" 9 00 ..	2,790 00	
193	"	" 12 00...	2,316 00	
32	"	" 14 00 ..	448 00	
10	Warehouses,	" 6 00...	60 00	
16	"	" 8 00...	128 00	
30	"	" 10 00...	300 00	
				$10,302 00
458	Baths,	at $2 00...	$916 00	
405	Water Closets,	" 2 00...	810 00	
260	Hose,	" 3 00...	780 00	
199	Horses,	" 1 50...	298 50	
79	Carriages,	" 1 50...	118 50	
19	Cows,	" 1 00...	19 00	
9	Urinals,	" 1 50...	13 50	
				2,955 50
		SPECIALS.		
14	Bars,	at $5 00...	$70 00	
16	"	" 3 00...	48 00	
6	Barbers,	" 3 00...	18 00	
	Amounts carried forward....		$13,600 00	$13,257 50

STATEMENT G—Continued.

Amounts brought forward...		136 00	13,257 50
3 Extra families,	at $2 00...	6 00	
10 Forges,	" 2 50...	25 00	
4 "	" 5 00...	20 00	
1 Candy Factory,	...	10 00	
1 Vinegar "	...	15 00	
1 Factory	...	25 00	
1 Dyeing estabm't,	...	10 00	
3 Butcheries,	" 10 00...	30 00	
1 Butchery,	..	5 00	
1 Photographer,	...	15 00	
6 Drugs,	" 3 00...	18 00	
8 Churches,	" 10 00...	80 00	
2 Chapels,	" 10 00 ..	20 00	
6 Bakeries,	" 3 00 ..	18 00	
1 Greenhouse,	...	10 00	
1 Fountain,	...	20 00	
1 Soda Fountain,	...	5 00	
1 Pickling estabm't,	...	5 00	
1 Bottling "	...	10 00	
1 " "	...	30 00	
1 Oyster "	...	15 00	
2 " "	at 25 00...	50 00	
Amounts carried forward....		$578 00	$13,257 50

STATEMENT G—Concluded.

	Amounts brought forward...						$578 00	$13,257 50
1	Cement Works,					...	15 00	
1	School,					...	5 00	
1	2	H. P.	Boilers,	at	5 00	..	10 00	
3	3	"	"	"	"	...	45 00	
2	4	"	"	"	"	...	40 00	
1	6	"	"	"	"	...	30 00	
1	8	"	"	"	"	...	40 00	
2	10	"	"	"	"	...	100 00	
2	13	"	"	"	"	...	130 00	
6	15	"	"	"	"	...	450 00	
1	20	"	"	"	"	...	100 00	
1	22	"	"	"	"	...	110 00	
1	26	"	"	"	"	...	130 00	
1	30	"	"	"	"	...	150 00	
1	35	"	"	"	"	...	175 00	
1	55	"	"	"	"	...	275 00	
1	Engine,					...	12 50	
								$2,395 50
Producing a yearly revenue of...								$15,653 00

STATEMENT H.

Abatements condensed for the year 1879.

	1876.		1877.		1878.		1879.	
	No.		No.		No.		No.	
Vacancy and stoppage	56	$770 01	132	$1,892 91	348	$4,255 62	189	$1,752 78
Specials	11	149 67	20	184 84	43	579 42	54	1,201 38
Water closets			1	2 00	7	14 00	15	30 00
Hose	6	18 00	13	39 00	22	64 00	53	157 25
Horses	3	4 50	15	23 75	61	86 01	89	133 00
Baths			2	4 00	11	22 00	37	74 00
Bars	2	6 00	2	6 00	14	41 25	26	80 50
Rents duplicated & torn down	37	349 00	51	535 09	64	842 25	50	944 50
Rents reduced	5	77 50	11	75 00	18	113 50	15	54 00
Extra families	3	6 00	3	6 00	4	8 00	10	20 00
Carriages			2	2 75	13	16 76	12	18 00
Cows			7	7 00	14	14 00	14	14 00
	123	$1,380 68	259	$2,778 34	619	$6,086 81	564	$4,479 41

Total amount of abatements for the year.....$14,725 24

STATEMENT I.

Estimated Revenue for 1880.

11,157	houses	at $5 00	$55,785 00		
13,196	"	" 7 50	98,970 00		
13,066	"	" 9 00	117,594 00		
5,528	"	" 12 00	66,336 00		
2,924	"	" 14 00	40,936 00		
295	warehouses	" 6 00	1,770 00		
441	"	" 8 00	3,528 00		
1,029	"	" 10 00	10,290 00		
47,636				$395,209 00	
9,993	baths	" 2 00	19,986 00		
6,020	water closets	" 2 00	12,040 00		
3,244	hose	" 3 00	9,732 00		
4,887	horses	" 1 50	7,330 50		
1,301	carriages	" 1 50	1,951 50		
637	cows	" 1 00	637 00		
207	extra families	" 2 00	414 00		
				52,091 00	
3,388	special supplies and meters			78,950 50	
				$526,250 50	

STATEMENT K.

Balances remaining on the books of the Department, December 31st, 1879.

Water rents, 1879	$155,828 72
" 1878	28,223 94
" 1877	10,773 54
Meter rents	456 60
Work bills	3,764 93
	$199,047 73

Water Engineer's Report.

REPORT.

OFFICE OF THE WATER ENGINEER,

Baltimore, January 1st, 1880.

To the President and Members
of the Water Board:

GENTLEMEN:

I am required by ordinance to report annually, in full, the condition of the works under the charge of the Water Engineer; the amount expended during the year, and all other information that may be required by the Water Board. I therefore, respectfully report as follows:

In January, 1879, this department was severely taxed to keep pace with the action of the frost. No snow fell that would have checked its rapid penetration to three feet in depth, in streets running east and west. During the month, there were twenty-five fires, but the fire department was only brought into requisition nine times, without meeting with any obstructions from ice in the plugs. Notwithstanding, there were thirteen of the old style which parted their connections in twenty-four hours, and wasted full head; and to make good this damage by the frost, twelve new ones were

erected upon the sites of those destroyed. As opportunity offered itself, the main and service pipes which had been affected, were deepened during the year, as follows: 958 feet of main pipe and 33 service pipes.

In February, the arched and staight pipe—both of which formed the centre chord of Lombard street bridge—was completed; the span being eighty-eight feet between the abutments, which was erected to convey the Gunpowder supply to the western, central and southern sections of the city.

In March, April and May, the department was engaged in laying pipe and making connections to the Wilson street line of 30-inch pipe, in order to sustain the 20-inch line on McMechen street. This improvement was completed, and the water admitted May 30th. At the same time, and by resolution of Mayor and City Council, there was a six-inch pipe substituted for a three-inch on Low, Front and Plowman streets, a distance of 1631 feet, and there were removed from the three-inch and placed on the six-inch pipe, 107 service pipes.

In June, I made a test of the benefits derived from laying the 30-inch pipe on Wilson street, in connecting it to the 20-inch pipe on McMechen street. As compared with a former test on the 20-inch line, previous to connecting, the result showed an improved head of water of 28 feet.

The city pipes were flushed extensively in March, April, June, August and December. I received complaints of the water being affected in the latter month for a few days; strictly local on Middle Service.

Work was commenced on the 40-inch pipe line in September, at Lanvale and Washington streets, and advanced south on Washington street to Monument. At this point it was determined to erect gates, which were then constructing. The work consists of two lines of 40-inch pipe, laid eighteen inches apart, one of which is to serve east of the Falls, and the other west. The west pipe will turn at Lombard Street; thence along Lombard, connecting the arched pipe which crosses Jones' Falls, heretofore mentioned, and continuing along Lombard to Gilmor street. The east pipe will advance south on Washington street to Eastern avenue, at which point a 20-inch pipe is met, that terminates at Choptank street and Eastern avenue. The 40-inch will connect with the 20-inch at Eastern avenue, and a 20-inch will connect at Choptank, advancing along Eastern avenue to Luzerne; thence to Hudson and the city limits. It will be understood that at all street crossings, branches and stops will be provided for future extensions. I would here mention, that the original intention was, to lay a 30-inch pipe, connecting to the 40-inch and 20-inch at Eastern avenue, and thence to the Basin, in order to waste from Clifton reservoir, and to flush the pipes. It has been thought advisable, however, to await the location of Harford Run sewer, as it may be determined more feasible to enter into it with the waste, than the point herein mentioned.

The Board, having determined to extend the 20-inch pipe, which now stops at the York road on North avenue, as soon as the avenue was opened, in order to improve the Eastern High Elevation supply, this line

was laid to near Harford avenue, 2700 feet, when we were obliged to stop, in consequence of 108 feet of pipe being fractured in delivery. It will be understood that the Eastern High Elevation supply was originally served through private grounds, near the York road and Jenkins lane, by a 10-inch pipe. In grading North avenue, the pipe has been buried in places fifteen feet deep. The 20-inch line will now fill the place of that part of the original 10-inch line so deeply buried; and a 10-inch line, 700 feet long, has been laid from the 20-inch line along Aisquith street, connecting with the original line on Jenkins lane. At this point, there is no doubt as to the highway being continued over the pipe line; but I believe it to be the desire of the Board to advance the 20-inch line on North avenue as soon as it is opened, which I fully recommend. When this is done, a more effective and less circuitous route may be procured to reach the eastern high elevations, than at present.

In commencing operations on the 40-inch line, we were obliged to start at Washington and Lanvale streets, whereas our starting-point should have been about 900 feet north, or at North avenue. Between these points the street was not open, and there was heavy grading and filling required; but by the time the 20-inch line was laid, a contract was made to open the street. I then, with the approbation of the contractor, turned my attention to advance the lines of pipe as fast as the grading admitted; the department having nothing to do with other features of the streets' finish. There is but a few days work required to finish at this location. There has been laid 752 pipe

and 13 branches, or about 2625 tons; and 10 stop-cocks have been connected to the branches.

The workshop—in which all specialties used in the department are fitted up, (except brass stops and ferrules for service pipe)—has been in operation two years. It adds very materially to the efficiency of the department, and, as shown by special report to the Board, cannot be otherwise than satisfactory. There has been twenty-two gates completed and erected at Lake Montebello, and seven at Loch Raven. Ten more gates are required at the latter works, six of which have been taken out, and four are nearly ready.

The 40-inch pipe now on hand, and contracted for to be laid in the city, will advance the two lines on Washington street to Fayette street. There will then be required for the lines that have been determined upon by the Board to be laid—consisting of a double line to Lombard; single line to Eastern avenue, and a single line from Washington street to Gilmore, on Lombard—19,648 feet of 40-inch pipe, or 5602 tons, and there will be wanted for the 20-inch line—commencing at Choptank street and Eastern avenue; thence along Eastern avenue, Luzerne and Hudson streets to city limits—458 tons. There will also be required an extension, from Washington street to near Ann street, of 20-inch pipe, to meet a 20-inch (dead end) on Pratt street; making in all about 525 tons of 20-inch pipe. There will also be used for the 40-inch line, 36 branches, weighing in all 44 tons, most of which are on hand; and for the 20-inch line, 19 branches or 10 tons. The stop-cocks required will be as follows: for the single 40-inch line, three sets of stops, located one mile apart, and one

30-inch at its terminus on Eastern avenue; also, six 20-inch, two 16-inch, ten 10-inch, fifty 6-inch, thirty 4-inch and six 3-inch stop-cocks. I have not enumerated what quantities of lateral pipe will be used in the completion of the lines, nor a further extension than Gilmor street from the 40-inch line. These items had better lay over for future considereration, or when nearing the completion of the main lines.

TEMPORARY PUMPING STATION ON GUNPOWDER FALLS.

In the latter part of June, it was evident that the supply of water was not equal to the city's consumption. One set of pumps were started June 26th, operating moderately until the temporary obstruction was put in the stream to increase the volume of water for the pumps. This is a seasonable operation; and for the short time that it is contemplated these works will exist, it has not been deemed advisable to erect a substantial dam. Several important leaks were also repaired on the force main. July 3d, both sets of pumps were started, and operated until the 26th of the month, when the stream became too turbid to use, from the effects of the rain. Unfortunately, the water shed of Lake Roland received none of this rain. Fearing a contingency might arise, when it would be advisable to pump turbid water into Lake Roland, I deemed it best to utilize the water from a branch that passes through the grounds for the use of the boilers. This was accomplished by laying 375 feet of 3-inch pipe from the branch to hot well in the engine house. Rain set in early in August, and filled up Lake Roland, which dispensed with pumping. During the time the

pumps operated, there were 187,088,441 gallons of water sent to Lake Roland, with 400 tons of coal consumed. There was ordered in August, and received at the works, 396 tons of coal, and there is now on storage 456 tons and 16 cords of wood. All the city's property at these works is in good condition.

The duty performance of the pumps is as follows:

Consumption of Coal in pounds.	Height water is pumped, in feet.	Gallons of water pumped.	Millions pounds raised one foot high with 100 lbs. of coal.	Gallons water pumped with 100 lbs. of coal.	Gallons water pumped with one lb. of coal.	Reduced to common standard of 100 feet high.
896,000	205.	187,088,441	35,699,23[illegible]	20,891	208 91	42,824

LAKE ROLAND.

The water wasted over the dam the first six months. The latter part of June, and through July, it fell off, but recovered again in August. In September, October, November, and up to December 6th, it fell off to seventy-two inches below the crest of dam. From the latter date up to December 27th, the occasional light rains filled the lake up, and a waste of one and a half inches deep passed over the dam. The water was in a very turbid condition the first eight months of the year, occasioned more particularly by high winds.

I am indebted to the U. S. Signal Office for amount of rainfall, which I compare with the previous year, viz:

1878.		1879.	
January	4.51	January	2.59
February	3.31	February	1.55
March	4.74	March	1.65
April	4.19	April	3.69
May	5.38	May	2.74
June	4.09	June	3.92
July	4.66	July	3.16
August	4.82	August	6.71
September	0.82	September	2.72
October	4.41	October	0.75
November	3.55	November	1.30
December	5.62	December,	5.23
Total	50.10	Total	36.01

There was 14.09 inches more rainfall in 1878 than in 1879.

The contractor for dredging has removed 87,576⅛ cubic yards of material, and it is to be regretted that the spreading of the same is so much delayed. There has been removed up to date 279,814¼ cubic yards.

The following are the most important items of labor completed:

Removed by city labor from coves and tributaries, 17,352 cubic yards of material;

Repairs to road and drain-paving near Mr. Suttons;

Riprapping around slopes and erecting culverts at Towsontown branch;

Sand-trap of 1,000 yards capacity erected on Towsontown branch;

274 panels of new fencing put up near Roland run, joining Mrs. Handy;

1,031 square yards of sodding on lake slopes, near keeper's house;

32 barrels of corn made on five acres of new land on Jones' Falls, and divided between Lake Roland, city's stable and Druid Lake;

The usual fence whitewashing and grass cutting was done, and with the exception of new fencing being required along the N. C. R. R., and the spreading of the material as above mentioned, the property is in good condition.

CONDUIT.

Slight repairs to fencing and culverts were required along the line.

In consequence of turbid water in Lake Roland, the conduit was not in service twenty-three days. It was flushed extensively at Harper's Waste Weir in February, March, June and August. It is in good order.

HAMPDEN RESERVOIR.

The reservoir, gate house, keeper's house, fencing and grounds are in good condition. The two flights of steps on embankment will require renewing, and a new boat is wanted.

30-INCH PIPE LINES OUTSIDE CITY LIMITS.

There are four which cross the falls, two of which are laid through the park, and two pass under the N. C. R. R. tracks to Druid Lake stop-house. From the stop-house two are continued under the above track to Mount Royal reservoir. The latter two have frequently been damaged, in consequence of the drainage from the inside tracks affecting the pipe foundations near Mount

Vernon factory. With the consent of the railroad company, I have had two traps erected, and 100 feet of 8-inch pipe laid from them and over the pipes. The 30-inch line along the east road to park was found to be in the way of grading and improvements being done by the Park Commissioners near Mount Royal reservoir. 800 feet in length was dropped three feet deeper without disturbing the flow of water through it.

DRUID LAKE.

The water here has been in good condition. In March, it was five feet below full capacity, and in June, five feet seven inches. This falling off was caused by the turbid condition of the water in Hampden reservoir, we being obliged on such occasions to pump the High Service supply from Druid Lake; and the pumps drew the past year five hundred hours from said lake. The fountain operated four hundred and thirteen and one-quarter hours. The stop-house, vault-house and machinery is in good order. The usual labor to roads, grass cutting, &c., which has received attention, justifies me in reporting this property in good condition.

HIGH SERVICE PUMP HOUSE.

The new pumps have received an internal overhauling and repair by our own engineers. The brick-work around old boilers has been thoroughly overhauled and new fire-brick lining erected in the furnaces. The boilers, which are 5½ years in service, are in perfect condition. Scales have been placed in boiler-house, in order to learn more accurately the consumption of coal.

The pumps have operated 2,362 hours, discharging into the reservoir 651,082,358 gallons of water, which is 85,861,099 gallons more than in 1878. There were 363 tons of coal on hand January 1st, 1879, and there were purchased in 1879, 1,016 tons. Quantity consumed, 1,139 tons, and the stock on hand January 1st, 1880, is 240 tons. These works are in a very good condition. The duty performance will be found in the following table:

Consumption of Coal in pounds.	Height water is pumped in feet.	Gallons of water pumped.	Millions pounds raised one foot high with 100 lbs. of coal.	Gallons water pumped with 100 lbs. coal.	Gallons water pumped with one lb. coal.	Reduced to common standard of 100 feet high.	Cost of pumping per thousand gallons in cents.
2,551,360	141	651,082,358	31,711,479	25,519	255 19	38 023	1,343

HIGH SERVICE RESERVOIR.

Since the repairs last year of the defect in the embankment, there has been no leakage found in the stop-vaults near by. The maximum depth of water has been 18 feet 1½ inches, and the minimum 11 feet 8 inches. The screen over the pipes in the screen-well required flushing of the well twice, to remove the accumulated leaves from the screen. The usual grass-cutting has been done, and it is in good condition.

MOUNT ROYAL RESERVOIR

Is in good condition; likewise stop-house and keeper's house. We had but one repair to make, which was a

blowed-out joint on fountain-pipe in screen-well. The fencing around the basin, which is of wood, may last another year. The lower fencing, now in the hands of the Park Commission, will alter all the features of the surroundings, and when finished, may require some change to be hereafter considered. The water in this reservoir does not fluctuate in depth of 20 feet, two inches in the year.

NEW SUPPLIES FROM DECEMBER 31, 1878, TO DECEMBER 31, 1879.

Aggregate	$15,653 00

EXPENDITURES OF THE WATER ENGINEER'S DEPARTMENT FROM JANUARY 1, 1879, TO JANUARY 1, 1880.

Distributing Main	$33,934 03
Permanent Supply Distributing Main	64,803 85
Lake Roland	30,648 39
Plumbing Department	9,352 92
Salaries, Engineer's Department	9,056 64
Repairs	4,719 52
Pump House	5,431 34
Druid Lake	2,866 30
High Service Reservoir	776 01
Hampden Reservoir	144 64
Mount Royal Reservoir	177 53
Water Meters	4,682 23
Temporary Supply	4,564 64
Telegraph Line	272 84
Fire Plugs	1,703 58
Pumps and Fountains	1,814 35
Tools and Fixtures	191 39

BILLS DELIVERED TO REGISTRAR FOR WORK AND MATERIAL.

Plumbing Department		$15,637 59
Distributing Main		1,575 54

SALES OF HAY.

Hay from Lake Roland	$57 00	
" Druid Lake	56 50	
" Hampden	60 00	
" Mount Royal	27 00	
		200 50
For ice at Lake Roland		61 76

SALES OF MATERIAL.

Old fencing at Hampden	$10 50	
1 oil barrel	40	
200 old shovels	4 00	
Stone from Gunpowder	3 00	
Wood from Lake Roland	10 50	
		28 40

SALES OF IRON.

36,590 lbs. scrap cast iron	$249 24	
900 " wrought iron	8 55	
		257 79

SALES OF BRASS.

778 lbs. brass turnings	$63 36	
711 " old brass	84 31	
		147 67

PAVING OVER PIPES, &c.

Square feet	220,987
Fire Plugs	200
Fountains	31
Pumps	23

The cost was $4,857.07—about 2 cents per square foot.

LEAKS AND REPAIRS.

Number on main pipes	546
" " stop-cocks	194
" of hydrants and service pipes turned off for leaks	493
" " ferrules drawn for leaks	131
" " fire plugs repaired	183

ORDERS FROM REGISTRAR

Supplies stopped for water-rent	3,664
" turned on	1,642
Ferrules drawn	250
" returned	191
Persons who were called upon and promised to pay	1,196

PUMPS.

Number repaired	103
" removed	8

METERS.

There are in service four hundred and fifty-two. Of this number fifty-four were erected in 1879. The sizes are as follows:

¾ inch	136
1 "	157
1½ "	49
2 "	30
3 "	76
4 "	4
	452

The meters showed for 1879 a registered consumption of water of 496,032,105 gallons, as follows:

Breweries	54,037,420
Brick yards	1,623,685
Coal oil refineries	10,702,818
Drove yards	7,800,458
Hydraulic elevators	52,681,707
Fruit and oyster packers	33,837,460
Hotels	30,720,988
Planing mills	3,242,774
Livery stables	5,002,806
Miscellaneous	80,180,117
Pork packers	18,056,493
Railroad companies	149,572,810
Steamboat companies	28,980,647
Sugar refineries	4,824,233
Whisky distillers and rectifiers	14,767,689

PLUGS ERECTED IN 1879.

*Caroline and McElderry.
*Pratt and Ann.
*Wood and O'Donnell's wharf.

*To Replace Old Plugs.

*Druid Hill avenue and Preston.
*Bank and Bethel.
*Bath and North.
*St. Paul and Church lane.
*Gist and Essex.
*Central avenue and Union alley.
*West and Battery avenue.
*Green and Franklin.
*Brown and Light.
*Dolphin and Mason alley.
Wilson and Linden avenue.
Pratt and Payson.
Baltimore and Smallwood.
Wolfe near Jefferson.
Franklin and Calhoun.
North and 20-foot alley rear Boundary avenue.
*Richmond and Plover alley.
*Sharp and Montgomery.
Eastern avenue and Chester.

PUBLIC FOUNTAINS IN THE CITY.

Fell's Point Market House.
Baltimore and Harrison streets.
Light and Conway streets.
Hollins street market.
Lexington and Jasper streets.
Richmond and Garden streets.
Pratt and Gay streets.
Belair market, Gay street.
Pratt street and Centre market.

*To Replace Old Plugs.

Pratt and Light streets.
Light and Lee streets.
Hanover market.
Cross street market.
Baltimore and North streets.
Locust Point.
Light street and Fort avenue.
Madison Square.
Charles street and Boundary avenue.
Pratt and South streets.
Fort avenue and Burrough street.
Fremont and Burgundy alley.
McMechin and Oliver streets.
Aisquith street and Harford avenue.
Light and Winder streets.
Leadenhall and West streets.
Greenmount avenue and Truxton street.
Broadway and Bank street.

FOUNTAINS FOR MAN AND BEAST.

Eutaw and German streets.
Exchange Place.
Broadway and Thames street.
Canton avenue and Chester street.
Howard and Centre streets.
Fremont and Lombard streets.
Portland and Green streets.
Eutaw and Cross streets.
President street and Eastern avenue.
Light and Poultney streets.
Charles and Lee streets.
Ensor and East streets.

Broadway and Chase street.
Greenmount avenue and Monument street.
Bond and Jefferson streets.
Pennsylvania avenue and Dolphin street.
Saratoga and Fremont streets.
Oregon and Saratoga streets.
Park avenue and Preston street.
Thames and Caroline streets.
Baltimore and Poppleton streets.
Hollins, Frederick avenue and Fulton street.
Light and Randall streets.
Pennsylvania avenue and Fremont street.
Calvert street and Court House.
Eastern avenue and Chester street.
Eastern avenue and West Falls avenue.
40 Philpot street.
Baltimore street and Central avenue.
Boston and Elliott streets.
Franklin street and Pennsylvania avenue.
Ridgely and Hamburg streets.
Hill and Sharp streets.
Montgomery and Light streets.
Covington and Hughes streets.
Camden and Eutaw streets.
Hanover and Randall streets.
*Monument and Wolfe streets.
*Fell and Thames street.
*Central avenue and Pratt streets.
*Conway and Sharp streets.

*Erected in 1879.

DISTRIBUTING MAIN.

Stock of material on hand and valve of the same, December 31, 1879 ..... $6,689 93

PLUMBING DEPARTMENT.

Stock of material on hand and value of the same, December 31, 1879 ..... $355 02

METERS.

Stock of material on hand and value of the same, December 31, 1879 ..... $761 52

PLUGS.

Stock of material on hand and value of the same, December 31, 1879 ..... $679 54

FOUNTAINS.

Stock of material on hand and value of the same, December 31, 1879 ..... $170 37

PERMANENT SUPPLY.

Stock of material on hand and value of the same, December 31, 1879 ..... $1,978 07

PERMANENT SUPPY—DISTRIBUTING MAIN.

Stock of material on hand and value of the same, December 31, 1879 ....$7,310 46

I respectfully refer you to Inventory submitted for each works and the City Department.

Respectfully submitted,

JAMES CURRAN, *Water Engineer.*

STATEMENTS.

TABULAR STATEMENT.

Size and Number of Feet of Pipe, Stop Cocks and Branches laid in the City.

	1½ in.	2 in.	3 in.	4 in.	4½ in.	6 in.	8 in.	10 in.	12 in.	16 in.	18 in.	20 in.	30 in.	TOTAL OF PIPE.
No. of feet of pipe laid previous to purchase by Water Co.	.....	13,203	95,411	31,876	72,462	60,704	10,040	14,330	12,209	26,168	4,627	8,588	14,263	363,821
Laid by Water Commissioners from July 1, 1855, to Dec. '57	.....	1,909	14,720	28,362	.....	5,005	613	448	.....	.....	.....	9,716	.....	60,773
By Water Board 1858	.....	2,949	24,438	23,742	.....	8,692	144	.....	.....	.....	.....	.....	.....	59,964
" " 1859	.....	638	22,972	40,367	.....	14,503	.....	6,300	108	.....	.....	.....	.....	84,888
" " 1860	.....	.....	20,488	35,106	.....	22,134	.....	7,910	.....	.....	.....	14,899	1,428	101,955
" " 1861	.....	276	8,317	15,432	.....	8,722	.....	5,017	.....	.....	.....	1,080	8,292	47,136
" " 1862	.....	1,140	11,065	6,562	.....	560	.....	.....	.....	490	.....	6,599	51	26,467
" " 1863	.....	2,729	12,223	5,696	.....	3,744	.....	4,560	.....	720	1,170	1,314	.....	32,156
" " 1864	1,748	314	20,899	8,362	.....	6,981	.....	13,476	405	1,962	783	1,395	.....	56,325
" " 1865	7,929	796	16,930	11,729	.....	3,204	.....	.....	.....	.....	.....	.....	.....	40,588
" " 1866	2,903	4,413	15,813	10,864	.....	13,048	.....	.....	.....	.....	.....	.....	.....	47,041
" " 1867	1,145	14,252	17,349	8,808	.....	6,491½	.....	9,372	.....	.....	.....	.....	.....	57,417½
" " 1868	1,642	4,475½	20,466½	14,759½	.....	2,012½	.....	.....	.....	.....	.....	.....	.....	43,356
" " 1869	192	4,765	16,595	9,457½	.....	4,037	.....	.....	.....	.....	.....	.....	.....	35,046½
" " 1870	....	8,502	11,372	10,886	.....	600	.....	.....	.....	.....	.....	.....	.....	31,360

From Jan. 1st to Oct. 31st, 1871	.....	6,895	11,863	13,205	.....	8,452	.....	.....	.....	.....	.....	.....	.....	40,415
From Oct. 31st, 1871, to Oct. 31st, 1872	78	6,871½	13,660½	12,479	.....	3,425	.....	.....	.....	.....	.....	.....	.....	36,514
From Oct. 31st, 1872, to Oct. 31st, 1873.	.....	4,551	10,677½	8,032½	.....	5,405	.....	2,150	.....	3,400	.....	.....	.....	34,216
From Oct. 31st, 1873, to Oct. 31st, 1874	36	4,402	8,169	10,525	.....	10,959	5,795	8,537½	.....	.....	.....	.....	.....	48,423½
From Oct. 31st, 1874, to Oct. 31st, 1875	.....	3,542	7,544½	8,837½	.....	11,750	.....	4,362½	.....	.....	.....	11,160	8,959½	56,156
From Oct. 31st, 1875, to Oct. 31st, 1876	.....	1,982½	7,053½	15,383	.....	1,050	.....	3,212½	.....	5,175	.....	202½	7,215½	41,274½
From Oct. 31st, 1876, to Dec. 31st, 1877	.....	1,289	17,246½	15,571½	.....	7,462½	.....	75	137½	.....	.....	.....	.....	41,782
By Water Board 1878	175	1,603	7,567	11,579½	.....	3,000	.....	4,800	.....	837½	.....	425	3,312½	33,299½
" " 1879	.....	1,603	4,490	10,876	.....	3,160	.....	2,038½	.....	.....	.....	.....	.....	22,167½
	15,848	93,099½	417,330	368,498	72,462	215,101½	16,592	86,589	12,859½	38,752½	6,580	55,368½	43,461½	1,442,542

TABULAR STATEMENT—Continued.

	1½ inch.	2 inch.	3 inch.	4 inch.	4½ inch.	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.	18 inch.	20 inch.	30 inch.	Total of Pipe.	Stops.
Stop Cocks by Water Company	....	12	61	94	....	55	9	8	8	9	4	8	2	....	270
" " Commissioners	....	9	8	8	....	2	....	....	....	....	....	2	....	....	29
By Water Board 1858	....	17	23	14	....	3	1	....	1	16	....	1	....	....	76
" " 1859	....	15	30	54	....	16	....	7	....	....	....	....	....	....	122
" " 1860	....	....	18	55	....	36	....	9	....	....	....	4	1	....	123
" " 1861	....	7	7	24	....	8	....	3	....	....	....	....	5	....	54
" " 1862	....	21	19	31	....	19	....	1	....	1	....	4	....	....	96
" " 1863	....	8	20	28	....	2	....	2	....	....	....	1	....	....	61
" " 1864	....	12	18	15	....	4	....	5	....	....	....	1	....	....	55
" " 1865	....	24	13	6	....	2	....	....	....	....	....	....	....	....	45
" " 1866	....	22	24	20	....	4	....	....	....	....	....	....	....	....	70
" " 1867	....	46	22	5	....	5	....	3	....	....	....	....	....	....	81
" " 1868	....	7	24	19	....	3	....	....	....	....	....	....	....	....	53
" " 1869	....	....	7	18	....	3	....	....	....	....	....	....	....	....	28
" " 1870	....	....	4	7	....	....	....	....	....	....	....	....	....	....	11
Jan. 1st to Oct. 31st, 1871	....	5	11	25	....	5	....	....	....	....	....	....	....	....	46
Oct. 31st, 1871, to Oct. 31st, 1872	....	10	20	23	....	3	....	....	....	....	....	....	....	....	56
Oct. 31st, 1872, to Oct. 31st, 1873	....	7	14	25	....	12	....	2	....	2	....	....	....	....	62
Oct. 31st, 1873, to Oct. 31st, 1874	....	4	14	52	....	9	6	6	....	....	....	....	....	....	91
Oct. 31st, 1874, to Oct. 31st, 1875	....	3	5	31	....	10	....	6	....	1	....	6	2	....	64
Oct. 31st, 1875, to Oct. 31st, 1876	....	1	25	66	....	52	2	....	....	1	....	1	2	....	150
Oct. 31st, 1876, to Oct. 31st, 1877	....	5	69	50	....	13	....	2	....	....	....	....	....	....	139
By Water Board 1878	....	7	29	22	....	2	....	6	....	4	....	2	1	....	73
" " 1879	....	4	15	37	....	6	....	2	....	....	....	....	....	....	64
	....	246	500	729	....	274	18	63	9	34	4	30	13	....	1,919

TABULAR STATEMENT—Concluded.

	1½ inch.	2 inch.	3 inch.	4 inch.	4½ inch	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.	18 inch.	20 inch.	30 inch.	Total of Pipe.	Stops.	Branches.
Branches by Water Board 1858	....	3	78	98	....	33	2	....	....	1	....	....	....	....	....	215
" " 1859	....	....	53	134	....	75	....	32	2	....	....	....	....	....	....	296
" " 1860	....	....	68	108	....	149	....	29	....	....	....	52	2	....	....	408
" " 1861	....	....	26	50	....	33	....	19	....	....	....	6	34	..	....	168
" " 1862	....	5	25	30	....	4	....	1	....	....	....	16	....	....	....	81
" " 1863	....	2	29	19	....	9	....	7	....	2	1	5	....	....	....	75
" " 1864	3	3	40	21	....	9	1	47	....	5	4	4	....	....	....	137
" " 1865	20	....	47	20	....	15	....	....	....	....	....	....	....	..	....	102
" " 1866	3	....	30	24	....	16	....	....	....	....	....	....	....	....	....	73
" " 1867	1	29	46	26	....	7	....	21	....	....	....	....	....	....	....	130
" " 1868	1	6	38	43	....	12	....	....	....	....	....	....	....	....	....	100
" " 1869	....	5	54	32	....	6	....	2	....	....	....	....	....	....	....	99
" " 1870	....	9	27	39	....	1	....	....	....	....	....	....	....	....	....	76
Jan. 1st to Oct. 31st, 1871	....	6	22	29	....	32	....	....	....	....	....	....	....	....	....	89
Oct. 31st, 1871, to Oct. 31st, 1872	....	3	35	39	....	10	....	....	....	....	....	....	....	....	....	87
Oct. 31st, 1872, to Oct. 31st, 1873	....	3	27	23	....	14	....	7	....	5	....	....	....	....	....	78
Oct. 31st, 1873, to Oct. 31st, 1874	....	4	17	53	....	16	22	30	....	1	....	....	....	....	....	143
Oct. 31st, 1874, to Oct. 31st, 1875	....	5	14	26	....	5	....	13	..	1	....	29	8	....	....	101
Oct. 31st, 1875, to Oct. 31st, 1876	....	4	21	90	....	12	....	14	....	21	....	....	9	....	....	171
Oct 31st, 1876, to Oct. 31st, 1877	....	2	45	45	....	23	1	3	....	....	....	....	....	....	....	119
By Water Board 1878	....	4	20	36	....	8	....	....	....	9	....	2	4	....	....	84
" " 1879	....	2	14	41	....	6	....	5	....	....	....	....	....	....	....	68
	28	96	775	1,026	....	495	26	230	2	45	5	115	57	....	....	2,900

Whole Length of Pipe Line in the City, December 31st, 1878	269 *Miles.*	544½ *Feet.*
Pipe Laid in the City, from January 1st, to December 31st, 1879	4 "	1,047½ "
Whole Length of Pipe Line in the City, December 31st, 1879	273 "	1,102 "
Net Cost of Pipe to date	$1,818,495 48	

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1st, 1879, to December 31st, 1879.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
10 foot alley, rear Ann	Orleans and Fayette	2	66	$22 44
Stockton alley	Baltimore and Hollins	2	96	27 85
Baltimore	and Liberty	4	425	210 33
10 foot alley, rear Townsend	Barclay and Greenmount avenue	4	200	71 33
10 foot alley, rear Townsend	Barclay and Greenmount avenue	3	195	55 36
10 foot alley, rear Harlem avenue	Mount and Gilmor	3	150	46 93
Huntingdon avenue	St. Paul and Calvert	4	300	115 16
10 foot alley, rear Hull	North of Beason	2	210	65 84
Hoffman	Mason alley and Jordan alley	4	412½	192 81
Lanvale	Mason alley and Jordan alley	4	400	179 49
Townsend	Mason alley and Jordan alley	4	400	185 38
10 foot alley, rear Townsend	Calvert and North	4	200	71 68
Mosher	Mason alley and Jordan alley	4	325	149 82
Preston	Mason alley and Linden avenue	4	200	111 08
Mosher	Dryden alley and McCulloh	6	125	85 68
Mosher	Stoddard alley and McCulloh	4	162½	75 35
Dolphin	Stoddard alley and McCulloh	6	162½	204 16
20 foot alley, rear Denmead	West of Greenmount avenue	4	62½	23 57
20 foot alley, rear Madison avenue	Near Park Gate	6	196	100 39
Greenmount avenue	Denmead and Boundary avenue	4	279	114 82

20 foot alley, rear Wilhelm	Monroe and Payson	3	225	66	56
10 foot alley, rear Calhoun	Townsend and Mosher	3	112½	53	30
Shields alley	Lanvale and Townsend	3	87½	26	54
Etting	Wilson and Laurens	4	175	68	11
Charles	Boundary avenue and Brown	4	737½	338	15
Charles	Boundary avenue and Denmead	3	36	29	61
10 foot alley, rear Townsend	Calvert and North	3	87½	26	60
Castle	Eastern avenue and Canton avenue	3	287½	91	56
Corner of High and Low	Thence along Low to Front; thence along Front to Plowman	6	1631	1,185	22
10 foot alley, rear Mulberry	Parish alley and Gilmor	2	55	17	50
North	Bath and Pleasant	2	84	31	20
An L alley	From Sharp to German	2	246	81	83
Vincent Alley	Harlem avenue and Lanvale	3 4	50 50	37	29
10 foot alley, rear Maryland Avenue	Shirk and Brown	4	12½	6	60
10 foot alley, rear Oak	Brown and Mankin	3	245½	139	96
Presstman	Madison avenue and Linden avenue	4	975	375	99
20 foot alley, rear Port	Aliceanna and Canton avenue	2	36	14	13
Eutaw	Rose and Preston	3	112½	38	10
Hollingsworth	Lombard and Pratt	3	250	80	65
St. Paul	Boundary avenue and Townsend	6 4	8 87½	47	73
20 foot alley, rear Denmead	Greenmount avenue and Barclay	4	350	142	08
Marshall	Fort avenue and Randall	4	125	67	17
Calvert	Eager and Chase	3	120	43	82
Prince	Pulaski and Calverton road	4	237½	104	30

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1st, 1879, to December 31st, 1879.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
Brown	St. Paul and Charles	4	237½	116 27
Jenkins Alley	Wilson and Laurens	6	125	70 64
Baltimore	Pearl and Arch	3	62½	22 05
Gittings	William and Light	3	62½	22 37
Plum alley	Hamburg and Cross	3	75	28 18
Plum alley	Hamburg and Henrietta	3	120	40 34
Harmony Lane	Poppleton and Schroeder	2	102	39 36
Lombard	East of Garrison Lane	3	162½	64 60
Cathedral	Federal and Lanvale	4	350	129 95
Mulberry	Republican and Schroeder	4	155	74 97
10 foot alley, rear Harlem avenue	Mount and Fulton	4	200	78 38
Vincent alley	Harlem avenue and Lanvale	4	150	75 33
Baker alley	Baker and Cumberland	4	25	14 65
Spruce alley	Washington and Castle	3	212½	83 69
Hollins	Monroe and Pulaski	4	375	149 46
Walker	St. Peter and Columbia	3	25	10 80
Division	North of Retreat	4	250	98 16
Chapel	Canton avenue and Aliceanna	2	216	70 66
Baker	Gilmor and Stricker	4	175	87 68
Castle	Fayette and Orleans	4	112½	50 72

10 foot alley, rear Washington	Orleans and Jefferson	2	96	31 05
10 foot alley, rear Jefferson	Washington and Chapel	2	90	26 63
Castle	Baltimore and Lombard	3	50	17 87
10 foot alley, rear Heath	Light and Charles	3	262½	75 48
10 foot alley, rear Carey	Mulberry and Saratoga	4	200	76 75
Franklin	Carey and Stricker	4	237½	119 53
20 foot alley, rear North avenue	Barclay and North	4	275	105 52
20 foot alley, rear Port street	Eastern avenue and Canton avenue	2	42	15 37
10 foot alley, rear Townsend	Calhoun and Stricker	4	362½	160 35
German	Paca and Green	4	137½	63 97
10 foot alley, rear Hull	Fort avenue and Railroad	2	24	11 13
South	and Lombard	3	5	28 24
		2	42	
Calvert	Boundary avenue and Townsend	4	212½	88 75
McHenry	Monroe and Pulaski	4	75	37 03
Shields alley	Pitcher and Smith	3	200	67 96
10 foot alley, rear Harlem avenue	Mount and Vincent Alley	3	100	29 31
Corner Monument and Wolfe	Thence along Wolfe to Fayette	2	48	
		3	6	
	Thence along Fayette to Washington	4	62½	2,169 12
		10	2038½	
Marshall	Randall and Heath	4	100	59 12
Binney	Boston and O'Donnell, and			
O'Donnell	Binney and Chesapeake	3	137½	44 03
Bank	Washington and Castle	3	125	55 61
Parkin	St. Peter street and St. Peter alley	3	275	98 11
Harford avenue	Hoffman and Oliver	4	79½	35 51

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1st, 1879, to December 31st, 1879.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
10 foot alley, rear Mankin	St. Paul and Lovegrove alley	4	187½	$91 59
Baker	Gilmor and Mount	4	12½	7 96
North	Eager and Chase	4	87½	41 70
Bouldin alley	McMechin and Mosher	3	100	39 03
Rear Division	McMechin and Wilson	3	187½	54 26
Randall	Hanover and Goodman alley	4	175	85 99
Randall	Hanover and Clarkson alley	4	237½	105 70
Clinton	First avenue and Third avenue	6	862½	464 10
Carey	Tennant and Mosher	4	287½	123 66
Chester	Bank street and Eastern avenue	6 3	50 100	73 16
Boston	Patuxent and Curley	4	187½	74 23
Boston	Concord and Leakin	4	175	64 16
East avenue	Elliott and O'Donnell	3	50	17 76

New Supplies for the Year ending December 31, 1879.

379	Dwellings	at $5 00.....	$1,895 00	
314	"	" 7 50.....	2,355 00	
309	"	" 9 00.....	2,781 00	
193	"	" 12 00.....	2,316 00	
32	"	" 14 00.....	448 00	
9	Warehouses	" 6 00.....	54 00	
16	"	" 8 00.....	128 00	
29	"	" 10 00.....	290 00	
1281				$10,267 00
458	Baths	at $2 00.....	$916 00	
405	Water Closets	" 2 00.....	810 00	
260	Hose	" 3 00.....	780 00	
199	Horses	" 1 50.....	298 50	
79	Carriages	" 1 50.....	118 50	
9	Urinals	" 1 50.....	13 50	
19	Cows	" 1 00.....	19 00	
2710				$2,955 50

Specials.

16	Bars	at $3 00.....	$48 00	
14	"	" 5 00.....	70 00	
6	Drugs	" 3 00.....	18 00	
3	Extra Families	" 2 00.....	6 00	
8	Churches	" 10 00.....	80 00	
2	Chapels	" 10 00.....	20 00	
6	Barbers	" 3 00.....	18 00	
6	Bakeries	" 3 00.....	18 00	
1	School	"	5 00	
	Amounts carried forward.....		$283 00	$13,222 50

——	Amounts brought forward.			$283 00	$13,222 50
1	Oyster Packer	at	.....	15 00	
2	Oyster Packers	" 25 00	.....	50 90	
1	Butchery	"	.....	5 00	
3	Butcheries	" 10 00	.....	30 00	
1	Bottling	"	.....	10 00	
1	"	"	.....	30 00	
10	Forges	" 2 50	.....	25 00	
1	Blacksmith	"	.....	6 00	
4	Forges	" 5 00	.....	20 00	
1	Dyer	"	.....	10 00	
1	Factory	"	.....	10 00	
1	"	"	.....	15 00	
1	"	"	.....	25 00	
1	Photographer	"	.....	15 00	
1	Fountain	"	.....	20 00	
1	Special	"	.....	9 00	
2	Specials	" 5 00	.....	10 00	
1	Special	"	.....	10 00	
1	"	"	.....	12 50	
1	Green-house	"	.....	10 00	
1	Pickling	"	.....	5 00	
1	Soda Fountain	"	.....	5 00	
1	Cement Works	"	.....	15 00	
1	2 h. p. Boiler	"	.....	10 00	
3	3 " " "	" 15 00	.....	45 00	
2	4 " " "	" 20 00	.....	40 00	
1	6 " " "	"	.....	30 00	
1	8 " " "	"	.....	40 00	
2	10 " " "	" 50 00	.....	100 00	
2	13 " " "	" 65 00	.....	130 00	
——	Amounts carried forward.....			$1,040 50	$13,222 50

	Amount brought forward.....	$1,040 50	$13,222 50
6	15 h. p. Boiler at 75 00.....	450 00	
1	20 " " " "	100 00	
1	22 " " " "	110 00	
1	26 " " " "	130 00	
1	30 " " " "	150 00	
1	35 " " " "	175 00	
1	55 " " " "	275 00	
			$2,430 50
2835			
	Producing a yearly revenue of.....		$15,653 00

REPORT

OF THE

CIVIL ENGINEER,

For 1879.

REPORT.

OFFICE OF THE CIVIL ENGINEER—CITY HALL,

Baltimore, January 1st, 1880.

To the Honorable the President
and Members of the Water Board:

GENTLEMEN:

The report of work under construction in the Civil Engineer's Department, during the year 1879, is herewith submitted for your consideration.

GUNPOWDER PERMANENT SUPPLY.

The several pieces of work classed under this heading are, Loch Raven; the storage lake in the bed of the Gunpowder Falls; the Dam across the Gunpowder Falls; the tunnel or conduit line leading from the dam; Lakes Montebello and Clifton, and the pipe mains from Lake Clifton to the city limits.

The progress made upon these several pieces of work during the past year is herewith stated.

LOCH RAVEN.

The excavation of the margins of the Gunpowder, within the area flooded by water, and the construction of the stone bridges over streams running into the Loch, are so near completion, that three months work in the spring ought to finish the whole work.

The margins of the Gunpowder, where necessary, have been excavated to the present level of the stream, and the material deposited on the sides, forming a level ten feet above high water.

The deposits of the stream were thus removed from the area to be flooded, and greater depth of water obtained for storage.

At the upper end of the Loch, where the shallowness of the water did not warrant the excavation of the sides of the stream, the material next the stream was taken to form levees, to keep the Falls within its limits in times of high water.

Of the nine bridges spanning the streams running into the Loch, six have been finished; the remaining three are well advanced towards completion.

As before reported, nothing has been done to the two roads on either side of the Loch, the past year, in the way of fixing them up for public use—the intention being to wait until the heavy traffic incident to construction is over with, when they will be re-graded, and used for the purpose they were constructed.

The amount expended upon the construction of Loch Raven to January 1st, 1880, has been $422,840.17.

THE DAM.

The commencement of the year 1879 saw the coffer-dam, inclosing the western half of the dam and gate-chambers, completed, and the stream running through a gap left open in the central part of the dam.

Since then, all the work that has been done during the past year lays within this inclosure.

The western half of the dam has been completed, and the gate-chambers carried up one-third the required height.

The unfavorable weather during the winter will somewhat retard the laying of stone, but the supply of dimension stones will be greatly augmented from now until the spring, when a vigorous prosecution should enable the contractors to finish before another winter.

The cost of graduation and masonry upon the dam section to January 1st, 1880, has been $226,078.03.

THE TUNNEL OR CONDUIT LINE.

Greater progress was made on the tunnel line in 1879 than upon any other piece of work of the Permanent Supply.

On the 1st day of January, 1879, there was over a mile of tunnel-heading to be driven. This has all been driven.

From Lake Montebello to No. 2 Shaft, a distance of six miles, the tunnel is all completed, the shafts arched over and filled up.

What arching was required in the tunnel has been done, and the contractors upon this portion have received their final estimates.

In other words, six of the seven tunnel sections have

been finished. What remains to be done is the taking up the bottom on Section No. 1, between Shafts Nos. 1 and 2, for a distance of 1,750 feet, and arching up the same with bricks.

The most satisfactory results were obtained in the alignment and levels in the tunnel. In all cases they came out almost mathematically correct.

The water that was encountered on Section No. 1, between Shafts Nos. 1 and 2, still continues to give a great deal of trouble as we advance with the brick arch, but by perseverance we hope to accomplish the end before many months.

The cost of graduation upon the seven tunnel sections to January 1st, 1880, has been $1,297,487.64.

LAKE MONTEBELLO.

This lake, located at the southern end of the tunnel from the Gunpowder, is the main receiving reservoir of the Permanent Supply.

There has been a good amount of work done upon this lake during the past year.

The western embankment, or one adjacent to the Hillen road, has been carried up to grade.

The eastern embankment, at the lower end of the lake, is within a few feet of the grade line.

The stone masonry of the gate-chambers, as well as all masonry about the lake, has been finished.

The white marble walls of the superstructure of the gate-house are up, and the iron roof to cover the same is under construction.

The twenty-two iron gates that control the flow of water in the chambers were put in place the past year.

What remains to be done here is to finish the embankments at the upper and lower ends, and also that on the north side.

The material to form these embankments will come from the body of the lake. If any remains it will be used to strengthen the embankments.

The riprapping of the interior slopes of the lake will be done after all the embankments have been brought to grade. The cost of graduation and masonry upon Lake Montebello, or Reservoir Section, to January 1st, 1880, has been $591,155.76.

LAKE CLIFTON

Is situated on the Clifton estate of the Johns Hopkins University trustees, distant from the Harford pike, in a southeastern direction, 1,426 feet.

It is to be eliptical in shape; the long axis 1,700 feet and the short one 1,200 feet.

The roadway around the lake will be 50 feet wide, 168 feet A. M. T., and 4,400 feet long.

The surface of water will be 163 feet A. M. T., covering an area of 30¼ acres.

Its depth will be 31 feet, and will contain 265,000,000 gallons of water.

The contract for building Lake Clifton was let to Mr. John E. Eschbach, July 14th, 1879, who commenced the work of clearing and grubbing, Wednesday, July 30th, 1879, and of excavating, Wednesday, August 13th, 1879. Since which time the contractor has been engaged taking out the cut from the present terminus of the Clifton tunnel, from Lake Montebello to the lake, and stripping the entire area covered of the top soil.

The construction of this lake was undertaken as an additional settling reservoir for the Permanent Supply, experience having demonstrated that the Gunpowder, the source of supply, is so frequently muddy during the year that it will be necessary to have all the available settling capacity possible to insure a clear supply to the city.

The cost of graduation and masonry upon Lake Clifton to January 1st, 1880, has been $7,337.56.

PIPE LINES.

The gate-chambers at Lake Clifton are pierced for six 40-inch cast-iron mains to supply the city.

These mains will be laid under the bed of Washington street extended, through the Clifton estate, as laid down by the Johns Hopkins trustees, to the city limits, at the intersection of Washington street and Boundary avenue.

At present the six mains will be brought out from the gate-chambers at Lake Clifton to shallow cutting, where three will be dropped and their ends securely capped.

The other three will be carried on to the city limits at Washington street and Boundary avenue, where a fourth main will be stopped for the present and capped.

The remaining two mains will then be carried on into the city for immediate use.

There has been delivered and paid for, on the ground, 814 forty-inch cast-iron pipes, sufficient to do this work from Lake Clifton to the city limits.

These pipes will be laid as soon this year as the bed of Washington street can be prepared for them. Two stone culverts, passage ways for the water under Washington street, are now being built, and the grading of Washington street extended is now going on for the reception of these mains.

The total amount expended on the Gunpowder Permanent Supply, as shown by the books of the department, to January 1st, 1880, has been $3,582,757.60.

In conclusion, I refer with pleasure to the efficiency of the corps of Engineers and Inspectors on the line, and to the willingness shown by the contractors to comply with the specifications in their several articles of agreement.

Respectfully submitted,

ROBERT K. MARTIN, *Civil Engineer.*

ANNUAL REPORT

OF THE

COMMISSIONERS FOR OPENING STREETS

TO THE

Mayor and City Council of Baltimore,

FOR THE

Fiscal Year ending December 31st, 1879.

REPORT.

OFFICE OF THE

COMMISSIONERS FOR OPENING STREETS—CITY HALL.

BALTIMORE, January 1, 1880.

To the Honorable the Mayor

and City Council of Baltimore:

GENTLEMEN:

We have the honor to submit to you a statement of the operations of this department from January 1, 1879, to December 31, 1879, inclusive.

The following list comprises the streets and alleys opened and closed during the above-stated time; also, the amount of damages, expenses and benefits; also, the cost to the city for each and every street, &c.

Street, from Street to Street.	Damages.	Benefits.	Expenses.	Am't on M. & C. C.
Eager street, from Mine Bank lane to Patapsco street	$ 1 00	$ 3 00	$ 286 35	$ 284 35
Ensor street, from Hoffman street to North avenue	2,331 62	2,559 52	515 99	288 09
Robert street, from Pennsylvania to Madison avenue	35,201 00	11,600 23	449 13	24,049 90
Presstman street, from Gilmor street to the western city limits	29,072 56	20,755 69	799 12	9,115 99
North street, from Biddle to John street	1 00	232 38	265 78	34 40
Truxton street, from Forrest to Buren street.	4,317 00	4,203 26	338 23	451 97
Wolfe street, from Monument street to North avenue	18,920 65	13,471 66	1,087 44	6,536 43
Chase street, from North street to a point about 100 ft. west of Greenmount avenue.	6,756 66	5,590 57	584 45	1,750 54
Patterson Park avenue, from Monument street to Oliver street	37,691 80	24,796 28	850 20	13,745 72
Federal street, from Aisquith to Wolfe street, repealed	.....	.....	1,495 86	1,495 86
Closing a lane between Presstman street and North avenue, from Madison avenue to Eutaw Place	128 19	413 00	284 81	.....
	$134,421 48	$83,625 59	$6,957 36	$57,753 25

ITEMS OF EXPENSE ACCOUNT.

Per diem of Commissioners and Clerk	$1,216 00
City Surveyor	4,020 45
Magistrates' Fees	15 00
Stationery, &c	60 00
Auctioneer	120 00
Publishing legal notices	1,525 91
	$6,957 36

STREETS, &c., NOW IN PROCESS OF OPENING.

Gold street, from Pennsylvania avenue to Madison avenue.

Luzerne street, from Baltimore to Madison street.

McElderry street, from Cannon street to Loney's lane.

Marshall street, from Dorsey street to the shore line.

Race street, from Cross street to Fort avenue.

Burke street, from Baltimore to Oliver street.

Cannon street, from Baltimore to Oliver street.

Collington avenue, from Hampstead to Hoffman street.

Chatsworth run sewer, from Cross to Scott street.

Jones street, from Fort avenue to Beason street.

Sharp street, from Ostend street to Port Warden's line.

Calvert street, from Biddle to John street.

Rutter alley, from Mosher to McMechen street.

Douglas street, from its present western terminus to Gay street.

Patapsco street, from Eager to Monument street.

Patterson Park avenue or Gist street, from Oliver street to North avenue.

John street, from Gay street to the eastern city limits.

ALLEYS, &c., IN PROCESS OF CLOSING.

An alley twenty feet wide, one hundred and forty feet north of Edmondson avenue, from Fulton street to Bruce alley.

The Lanvale road, between Charles and St. Paul street.

ORDINANCES REPEALED.

Ordinance No. 88, of 1876—Federal street, from Aisquith to Wolfe street.

Ordinance No. 110, of 1876—Marshall street, from Dorsey street to the Port Warden's line.

Ordinance No. 9, of 1876—Bruce alley, from Patterson avenue to Townsend street.

Ordinance No. 136, of 1876—Chatsworth run sewer, from Cross to Scott street.

In conclusion, we would call the attention of your Honorable Body to the amount charged in the work of the past year to the Mayor and City Council, ($57,753.25), which we think not excessive, in view of the importance of several of the condemnations.

Respectfully submitted,

JOHN B. WILLIAMS,
JAS. S. MORROW,
HENRY R. CURLEY,

Commissioners for Opening Streets.

R. F. GREEN, *Clerk.*

ANNUAL REPORT

OF THE

Inspector of Illuminating Gas & Kerosene Oil,

TO THE

Mayor and City Council of Baltimore,

FOR THE

Fiscal Year ending December 31st, 1879.

REPORT.

OFFICE OF INSPECTOR OF ILLUMINATING GAS
AND KEROSENE OIL,

Baltimore, December 31, 1879.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

After the passage of the ordinance providing for the inspection of Illuminating Gas and Kerosene Oil in our city, there was necessarily an interval of some weeks before it could be carried into practical operation. The names of some 1600 dealers scattered over the city were to be arranged in their respective streets to facilitate the collection of samples, and instruments and conveniences for doing the work were to be provided. The interval also gave time for all dealers having on hand oil of inferior grade to exchange it for a better article; and judging from the results of the first month's work, this has been very generally done. The very few cases where dangerous oils have been

found on sale have been exceptional, and after personal inquiry, were reported at the time, as in my opinion, not proper cases for the enforcement of the penalty. As soon as the character of the oil was made known, the sale was stopped and a better article procured. There is reason to believe that dealers may have been misled by placing too much reliance on the mere density. The very heavy and the very light oils show a well marked difference in this respect, but the intermediate grades do not. The heavier oil is not always the safest. A dangerous oil may be heavier than a safe one; may even show the standard density required by the law and still be dangerous. To assume that all oil with a density of 49° Beaume is safe, might lead to fatal accidents. There is nothing but the flashing point that can be relied upon to indicate safety or danger in this matter. With the flashing point at 120° Far., the oil for all ordinary use may be considered absolutely non-explosive. There can be no explosion of a lamp until the liquid becomes hot enough to give off a vapor which, mixed with air and kindled, produces the accident. The only safe rule then is to use only oil that cannot be vaporized at the highest temperature the lamp can have when in use. Experiments with lamps have shown that after burning some hours the oil may become heated above 100° Far. The actual temperature being influenced by the material of which the lamp is made, and by the heat of the room. A metal lamp will become hotter than a glass one in the same room, and in an overheated room a lamp will become hotter than if burning the same length of time in a cooler atmosphere. The maximum heat the oil in a

lamp can attain when burning under ordinary conditions is pretty well ascertained, and is far enough below 120° Far. to permit one to say that any oil that will not flash or give off a combustible vapor until it is heated up to that point may be safely used. The fire test of the refiner, if by that is meant the temperature at which the oil itself takes fire and burns, is a very unsafe guide. This ranges from 10° to 20° above the flashing point, and hence an explosion might occur long before the fire test indicated danger. I need hardly add that the innumerable patent processes professing to make inferior oil non-explosive are all dangerous frauds, increasing the risk of fatal accidents by deluding the public with a false security. It is simply impossible to make a dangerous oil safe by adding to it any known substances. I have no means of knowing the character of the coal oil on sale at this time in other cities, but if it at all resembles what it was a few years since when it was made a matter of public investigation, we may congratulate ourselves on the favorable contrast our own supply presents.

In 1869 the Board of Fire Commissioners in New York made some extensive examinations among the retail dealers in that city, and among 636 samples tested, only 21 could be considered safe. Two years later we learn from the very interesting and elaborate report made by Prof. Chandler to the Board of Health, in 100 samples tested, he could only find 7 that could be called safe. The record in our own city so far shows that during the first month the law has been in operation 423 samples have been tested, and of this number only 6 were found unsafe; and of these only two very

dangerous; one flashed at 90°, one at 94°, two at 110° and two at 112°. The range in flashing point and in density of all the samples examined is given in an accompanying table. The names of the dealers who supplied them, their places of business, the flashing point and density of each sample and date of testing are recorded in a book kept in the office of the Inspector in the City Hall, and accessible at all times to any one wishing to examine it. It was not thought desirable to make the long array of names a part of this report. The southern and southwestern, the western, northwestern and northern divisions of the city have been visited, with a portion of the northeastern division, leaving a large part of the last, with the eastern and southeastern portions, including Locust Point, yet to be visited. It is the intention of the Inspector to have samples obtained as rapidly as possible over the whole city, until every dealer has been called upon, and after that, to renew the visits at reasonable but irregular intervals as the best mode to guard the public against the traffic in dangerous oils. When it becomes certain that every dealer will be called upon, and the time for such call is left uncertain, all will be more likely to keep on hand the right article. It would appear that at this time there is very little objectionable oil to be found among our retail dealers—a state of things most creditable to the refiners who supply the trade; and there is every reason to believe that with a rigid inspection constantly kept up, the terrible accidents of past years may be of rare occurrence in the future. That accidents will happen while lamps can be broken, and oil cans used to kindle fire, is in the high-

est degree probable, but it will be a great gain if the public can be spared the horrors of lamp explosions.

The character of the gas supply for the past year from the several gas companies in our city has been very satisfactory, both for its illuminating power and for its freedom from offensive impurities. Its greatly improved condition, noted in last year's report, has been steadily maintained. With proper attention on the part of consumers to control excessive pressure when it occurs, and to provide burners best fitted to eliminate the most light, there should be no complaint of want of light.

The average illuminating power of the gas from the several companies for each month in the year is given below.

Respectfully,

WILLIAM E. A. AIKIN,

Inspector of Illuminating Gas and Kerosene Oil.

Average of the Illuminating Power of the Gas Supply for the City of Baltimore, for the year ending December 31, 1879.

	Baltimore Co.	People's Co.	Mutual Co.
January	17.50	17.37	19.12
February	18.00	17.75	19.12
March	17.80	17.70	19.30
April	17.25	17.37	18.50
May	17.90	17.90	18.80
June	17.50	17.50	18.00
July	17.62	17.60	17.95
August	17.30	17.40	17.50
September	17.62	17.75	17.95
October	17.62	17.75	18.50
November	17.60	17.70	18.00
December	17.62	17.87	18.50
For the year	17.61	17.77	18.43

The samples of Coal Oil tested showed a range in the flashing point from 90° *Farenheit to* 142°, *and in density from* 45° *Beaume to* 50°.

6	Flashed	from 90° to 112° Farenheit.
250	"	at 120°.
80	"	from 120° to 125°.
50	"	from 125° to 130°.
37	"	from 130° to 142°.
423		

In density,	1	stood at	45°	Beaume.
	2	" "	46°	"
	6	" "	47°	"
	126	" "	48°	"
	251	" "	49°	"
	37	" "	50°	"
	423			

Respectfully, &c.,

WILLIAM E. A. AIKIN,

Inspector of Illuminating Gas and Kerosene Oil.

ANNUAL REPORT

OF THE

CITY COLLECTOR

TO THE

MAYOR AND CITY COUNCIL

OF BALTIMORE,

For the Fiscal Year Ending December 31, 1879.

REPORT.

TAX DEPARTMENT—CITY COLLECTOR'S OFFICE,

BALTIMORE, January 10, 1880.

To the Honorable Mayor and

City Council of Baltimore.

GENTLEMEN:

I have the honor to submit to you the report of this department for the fiscal year ending December 31, 1879:

The amount received from all sources during the year was $3,935,905.78.

On the levy of 1875, present basis $224,074,672, the total collections amount to $99\frac{27}{100}$ per cent.

On the levy of 1876, present basis $223,402,195, the total collections amount to $98\frac{35}{100}$ per cent.

On the levy of 1877, present basis $241,093,065, the total collections amount to $89\frac{31}{100}$ per cent.

On the levy of 1878, present basis $236,990,805, the total collections amount to $83\frac{82}{100}$ per cent.

On the levy of 1879, basis $244,043,181, there has been collected $65\frac{51}{100}$ per cent.

Table A shows the monthly collections of both City and State taxes for the past fiscal year, amounting in the aggregate to $4,329,146.07. Of this sum the City's proportion was $3,935,905.78, and the State's $393,240.29.

Table B gives the basis of the various levies on which collections have been made during the past year, with the amount collected on each levy, also the gross amount received for opening, closing and widening streets and alleys, and for paving streets, &c.

By this table it will be seen that there has been collected:

On account of taxes in arrears.....	$1,431,814 77
On account of levy of 1879.....	2,401,933 23
For opening, closing, widening streets, &c.	78,205 43
For paving and grading streets, &c.	23,952 35
Total collections for the City.....	$3,935,905 78

Table C shows the rate of tax per hundred dollars for the various items of the several levies from 1874 to 1879, inclusive.

Table D shows the monthly receipts on the several levies from 1874 to 1879, inclusive; also for opening and closing streets, alleys, &c., and for paving streets, &c.

Table E shows the amount of taxes collected during the past year, divided according to the separate items of the several levies upon which they were collected, the amount of interest received on account of taxes in arrears, and the amount of discount allowed for prompt payment of taxes.

Table F gives the basis, the basis collected upon, and the percentage collected within each year on levies of 1874, 1875, 1876 to October 31, and levies of 1877 and 1878 to December 31, and of levy of 1879 from date of levy to December 31, 1879.

Table G shows the percentage collected monthly from January 1, 1879, to May, 1879, on levy of 1878, and on levy of 1879, from date of levy to December 31, 1879, inclusive.

Table H is a detailed statement of the amount received for opening, closing and widening streets and alleys, from January 1, 1879, to December 31, 1879, which aggregates $78,205.43.

Table I gives a statement of the amount received during the fiscal year for paving streets, &c., amounting to $23,952.35.

By reference to the details, given in "Table B," it will be observed that there was collected $65\frac{61}{100}$ per cent. of the levy of 1879, which is nearly five (5) per cent. more than was collected of the levy of 1878. Of the taxes in arrears there was collected $1,431,814, or nearly $300,000 more than was collected in 1878.

It is generally understood that the committee of the Council on the Tax Department are now considering an ordinance which is intended, among other things, to facilitate the collection of taxes on property in arrears, both real and personal. In my last report I recommended that appropriate action be taken on the subject. I now respectfully renew this recommendation.

It has been said that the Collector has ample power already to enforce the prompt payment of all kinds of

taxes as they become due. But while this may be true, the authoritative action of the Council on this matter would, under existing circumstances, greatly strengthen his hands in the exercise of that power. So much indulgence has been given in the past to delinquent taxpayers that many of them have come to believe that the payment of taxes in arrears cannot be enforced until after the expiration of three years from the time they fall due. The consequence of extending this indulgence over so long a period has been to deprive the city of the receipt of taxes on real estate that ought long before to have been in the treasury, while in respect to taxes on personal property large sums in the aggregate have been lost altogether. This custom has existed so long that it is looked upon by many as law, and even by those who ought to know better as having the force of law. Whatever may have been the reason for granting this indulgence in the first instance, or whether it was wise or unwise to do so, it is not for me here to discuss; the effect of it has neither been good to the city nor beneficial to the delinquent payers. It has caused the annual estimates of the sum needed to meet the Municipal expenses to rest upon a hypothetical basis, for the reason that the amount that will be collected of taxes in arrears has to be assumed from year to year, while it has piled up accumulated interest and heavy cost upon the taxpayers in default. In respect to taxes on personalty it has diminished to a considerable extent the sums that should be annually paid into the treasury, and has left their ultimate collection doubtful; for when an attempt is made to enforce their collection it frequently happens that either the prop-

erty assessed for taxes for years before cannot be found, or its owners have disappeared or become bankrupt or have died and left no assets that can be reached.

In the matter of taxes on real estate the case is different, but even in respect to these the limit of indulgence might be shortened to advantage. But particularly as regards the collection of taxes on personalty, its losses that annually accrue to the city render it of the utmost importance that the custom that makes such losses possible should either be modified or abrogated. In the absence of such action by the Council, a refusal on my part to recognize the force of an old custom would, in most cases, be looked upon as a stretch of power, originating in over-zealousnes, notwithstanding the opinion given recently by the City Solicitor on the subject. The readiness and cheerfulness with which so many taxpayers have come forward and paid two-thirds of the levy of 1879, as well as the large payments they have made on account of taxes in arrears, is a gratifying indication of revival of business in all those branches that have suffered so long from the general depression of trade. It is to their interest as taxpayers that others should be required to be as prompt, so that the loans which the city has now occasionally to seek to meet emergencies, and on which interest has necessarily to be paid, may be avoided as far as possible, and taxes reduced accordingly.

In many instances where taxes are in arrears the default results less from inability to pay than from carelessness and neglect on the part of some, and on the part of others from the consciousness that the city has not been in the habit of enforcing their collection until

the fourth year after they were due, whereby, as regards the personalty, at least, there is always a hope that from some cause or other they may escape their payment altogether. If delinquent taxpayers were once disabused of this impression, we might reasonably look in future years for a large addition to the receipts from the annual levy.

In closing, I beg leave to again call the attention of your Honorable Body to the importance of making provision for renumbering the houses of the city, on some uniform system that shall give promise of permanence. The imperfections and irregularities at present existing are a constant source of perplexity and annoyance. It is not only our citizens and strangers that are affected by them; this department feels greatly the need of an accurate renumbering of houses, from the difficulty which is now experienced in correctly locating property on which taxes are to be paid, and because of the errors that unavoidably arise in delivering bills and notices, the confusion of double numbers, and the annoyance of taxpayers because of the mistakes to which they are subjected, are not among the least of the troubles that arise from the present loose and haphazard and defective way in which the houses of the city are numbered.

I have the honor to be,

Very respectfully, yours, &c.,

CHAS. WEBB, *Collector.*

TABLES.

TABLE A.

Total City and State Taxes received from January 1st, 1879, to December 31st, 1879, inclusive.

1878.	CITY.	STATE.	TOTAL.
January	$ 504,433 36	$ 44,984 43	$ 549,417 79
February	172,648 14	14,314 06	186,962 20
March	100,925 57	7,636 95	108,562 52
April	77,885 93	6,331 05	84,216 98
May	1,570,557 48	170,582 50	1,741,139 98
June	300,459 79	15,820 56	316,280 35
July	179,142 08	16,809 97	195,952 05
August	127,513 90	27,832 10	155,346 00
September	148,767 59	15,633 83	164,401 42
October	198,033 17	19,324 11	217,357 28
November	182,747 96	17,661 53	200,409 49
December	372,790 81	36,309 20	409,100 01
	$3,935,905 78	$393,240 29	$4,329,146 07

TABLE B.

Recapitulation of Taxes collected from January 1st, 1879, to December 31st, 1879, on Levies of 1874, 1875, 1876, 1877, 1878 and 1879.

	Basis.	Rate per $100	Tax.	Discount.	Net Tax.	Interest.	Total Interest and Discount.
1874.							
1875.	$ 41,158	180	$ 740 83		$ 740 83	$ 193 67	$ 934 50
Direct...							
1876.	1,655,974	180	29,807 41		29,807 41	5,813 34	35,620 75
Direct...							
1877.	13,073,192	180	235,317 41		235,317 41	35,042 48	270,359 89
Real.....							
Personal	10,153,321	175	177,683 08		177,683 08	15,315 64	192,998 72
1878.	3,024,071	175	52,921 21		52,921 21	5,113 80	58,035 01
Real.....							
Personal	40,498,537	190	769,472 18		769,472 18	8,941 39	778,413 57
	4,975,177	190	94,528 34		94,528 34	923 99	95,452 33
	$73,421,430						$1,431,814 77

1879.								
Real... ..	118,871,157	1.50	1,783,067 35	69,518 36	1,713,548 99	....		1,783,067 35
Personal	41,257,726	1.50	618,865 88	52,465 10	566,400 78	....		618,865 88
	$160,128,883			$121,983 46	$3,640,420 23	$71,344 31		$3,833,748 00
	$223,550,313							

Opening, closing and widening streets and alleys	78,205 43
Paving streets and alleys.....	23,952 35
Total.....	$3,935,905 78

TABLE C.

Rate of Tax per Hundred Dollars.

	1874	1875	1876	1877	1878	1879
Internal Improvements	10	6	7	7	.....	.....
Police Department	23	21	21	22	26	23
Certain expenses	8	8	6	11	10	8
Criminal Court	3	3	3	.....	.....	.....
Public Schools	21	21	19	19	17	18
City Poor	6	5	5	6	7	5
City Direct	69	75	86	71	67	69
Miscellaneous stock	29	27	27	30	52	23
Opening streets	3	9	3	6	11	4
City Hall Sinking Fund	3	2	2	2	.....	.....
Funded Debt of 1868	1	1	1	1	.....	.....
Jones' Falls Sinking Fund	2	1	.....	.....	.....	.....
Funded Debt of 1874	2	1	.....	.....	.....	.....
	180	180	180	175	190	150

TABLE D.

Monthly Receipts of Taxes on the several Levies from 1874 *to* 1879 *inclusive, for Opening and Closing Streets and Alleys, and for Paving Streets and Alleys from January* 1*st*, 1879, *to December* 31*st*, 1879, *inclusive.*

MONTHS.	1874	1875	1876	1877	1878	1879	Opening Streets and Alleys.	Paving Streets and Alleys.	TOTAL.
January	$297 94	$10,039 95	$18,016 50	$25,047 49	$446,932 27		$2,747 84	$1,370 34	$504,433 36
February		3,950 65	15,250 84	26,472 68	119,428 65		2,010 79	5,534 53	172,648 14
March	11 25	8,968 30	19,248 73	20,661 31	47,924 74		506 98	3,604 26	100,925 57
April	279 82	3,669 91	25,058 43	17,915 30	30,055 53		540 84	366 10	77,885 93
May		544 24	25,194 50	20,089 19	39,744 15	$1,480,535 02	3,124 22	1,326 16	1,570,557 48
June		675 25	18,443 48	12,177 67	21,329 56	237,297 01	8,679 99	1,856 83	300,459 79
July		1,166 39	28,187 76	16,467 57	23,912 69	92,110 37	15,814 59	1,482 71	179,142 08
August		87 48	20,086 76	12,066 92	25,426 72	59,083 49	10,520 79	241 74	127,513 90
September	74 07	978 48	30,493 07	15,146 21	27,011 67	68,866 11	2,959 51	3,238 47	148,767 59
October	289 39	431 19	24,118 47	14,254 05	24,624 26	125,288 68	8,088 35	938 80	198,033 17
November		5,109 91	25,086 21	20,149 41	27,542 51	89,910 77	13,242 22	1,706 93	182,747 96
December			21,175 14	50,585 95	39,933 15	248,841 78	9,969 31	2,285 48	372,790 81
	$934 50	$35,620 75	$270,359 89	$251,033 73	$873,865 90	$2,401,933 23	$78,205 43	$23,952 35	$3,935,905 78

TABLE E.

Division of Taxes received from January 1st, 1879 to December 31st, 1879.

	1874	1875	1876	1877	1878	1879	Total
Internal Improvements	$41 16	$993 58	$9,151 24	$9,224 14			$19,410 12
State Police	94 67	3,477 55	27,453 71	28,990 28	$118,231 66	$349,592 28	527,840 15
Certain Expenses	32 93	1,324 72	7,843 93	14,495 18	45,473 68	121,597 36	190,767 80
Criminal Court	12 34	496 81	3,921 97				4,431 12
Public Schools	86 43	3,477 55	24,839 05	25,037 05	77,305 31	273,593 98	404,339 37
City Poor	24 70	828 00	6,536 58	7,906 44	31,831 60	75,998 33	123,125 65
Direct Tax	284 00	12,419 82	112,429 45	93,559 47	304,673 89	1,048,776 86	1,572,143 49
Miscellaneous Stocks	119 37	4,471 15	35,297 58	39,532 16	236,463 30	349,592 28	665,475 84
Opening Streets	12 34	1,490 36	3,921 97	7,906 44	50,021 08	60,798 68	124,150 87
City Hall Sinking Fund	12 34	331 19	2,614 63	2,635 45			5,593 61
Funded Debt of 1868	4 11	165 56	1,307 30	1,317 68			2,794 65
Jones' Falls Sinking Fund	8 22	165 56					173 78
Funded Debt of 1874	8 22	165 56					173 78
	740 83	29,807 41	235,317 41	230,604 29	864,000 52	2,279,949 77	3,640,420 23
Interest	193 67	5,813 34	35,042 48	20,429 44	9,865 38		71,344 31
Discount						121,983 46	121,983 46
	$934 50	35,620 75	270,359 89	251,033 73	873,865 90	2,401,933 23	3,833,748 00
Opening, Closing and Widening Streets, &c.							78,205 43
Paving Streets and Alleys							23,952 35
							$3,935,905 78

TABLE F.

Of Percentage collected within the year on Levies of 1874, 1875, 1876, to October 31st, and 1877 and 1878, to December 31st, and on Levy of 1879 from date of Levy to December 31st, 1879; also on Basis of 1878 to December 31st, 1879.

	Basis.	Basis Collected Upon.	Per Cent.
1874	$228,571,316	$124,553,743	54.50
1875	231,365,863	128,310,784	55.46
1876	228,816,110	124,618,703	54.46
1877	256,105,341	161,947,188	63.23
1878	249,266,595	151,982,867	60.97
1879 to December 31	244,043,181	160,128,883	65.61
1878 to Dec. 31, 1879	236,990,805	197,456,581	83.32

TABLE G.

Showing the percentage collected monthly from January 1st, 1879, to May 1st, 1879, on levy of 1878, and on levy of 1879 from May 1st to December 31st, 1879, inclusive.

	Months.	Basis Collected Upon.	Per Cent.
1878. $236,990,805.....	January.....	$23,522,751	$9.93
	February.....	6,254,447	2.64
	March.....	2,497,381	1.05
	April.....	1,558,493	.66
1879. $244,043,181.....	May.....	$98,702,335	$40.44
	June.....	15,819,801	6.48
	July.....	6,140,691	2.52
	August.....	3.938,900	1 62
	September.....	4,591,074	1.88
	October.....	8,352,579	3.42
	November.....	5,994 051	2 45
	December.....	16,589,452	6.80
		$160.128.883	$65.61

TABLE H.

Summary of Receipts for opening, closing and widening streets and alleys from January 1st, 1879, to December 31st, 1879.

Opening	Oliver street	$2,426	99
"	Castle "	2,617	51
"	St. Paul "	2,807	23
"	Eden "	10,231	10
"	McKim "	69	75
"	Covington "	18	75
"	Biddle "	98	98
"	Caroline "	2,350	44
"	North "	650	00
"	McHenry "	11	20
"	Valley "	1,318	16
"	Ensor "	19	37
"	Wilcox "	2	25
"	Bond "	981	12
"	Broadway	8,334	94
"	Wolf street	31	28
"	66 foot "	6,527	53
"	Addison alley	1,174	48
"	Wilmer "	182	56
"	Vincent "	250	78
Widening Eutaw street		38,026	71
Closing lane		40	00
"		20	00
Re-curbing Light street		14	30
		$78,205	43

TABLE I.

Summary of receipts for paving streets and alleys, &c., from January 1st, 1879, to December 31st, 1879.

Paving	Baker street, No. 3	$323 09
"	Hampstead street	200 00
"	Stricker street	1 23
"	Boston street	444 78
"	Courtland street	19 64
"	Hoffman street	168 81
"	Townsend street	1,984 19
"	Jackson street	1,682 08
"	Ostend street	377 68
"	Washington street	4,262 94
"	Pitcher street	291 94
"	Lanvale street	1,198 50
"	Covington street	158 74
"	Calvert street	768 90
"	Saratoga street	2,729 73
"	McElderry street	214 49
"	Exeter street	243 78
"	Pearl street	46 29
"	Fayette street	300 51
"	Pratt street	1,159 33
"	St. Paul street	114 52
"	Spring street	21 39
"	Eden street	72 99
	Amount carried forward	$16,785 55

TABLE I—Concluded.

	Amount brought forward	$16,785 55
Paving	Baltimore street	3,316 88
"	Light street	22 94
"	Oliver street	550 93
"	Beason street	233 66
"	Marshall street	35 88
"	McCabe street	135 54
"	Sterrett street	826 04
"	Mount street	418 10
"	Frederick avenue	292 46
"	Argyle avenue	212 81
"	Bounty lane	14 37
"	15 foot alley	84 84
"	Mason alley	43 12
"	Hall alley	154 96
"	Vincent alley	95 62
"	Foster alley	72 73
"	Jackson court	103 03
		$23,399 46
Interest on paving		552 89
		$23,952 35

Twenty-First Annual Report

OF THE

BOARD OF FIRE COMMISSIONERS

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1879.

Officers of the Fire Department.

FIRE COMMISSIONERS, (Honorary.)

SAMUEL W. REGESTER, PRESIDENT.
FERDINAND C. LATROBE, EX-OFFICIO.
THOMAS W. CAMPBELL, CHARLES B. SLINGLUFF,
JAMES E. TROTT, SAMUEL HANNAH,
J. F. MORRISON.

Secretary and Clerk.

GEORGE A. CAMPBELL.

Chief Engineer.

JOHN M. HENNICK.

Assistant Engineers.

GEORGE W. ELLENDER, THOMAS F. MURPHY.

REPORT.

OFFICE BOARD OF FIRE COMMISSIONERS,

BALTIMORE, January 1, 1880.

To the Honorable the Mayor
and City Council of Baltimore.

GENTLEMEN:

The undersigned, the Board of Fire Commissioners of the City of Baltimore, respectfully submit for your honorable consideration, the twenty-first annual Report of the Fire Department for the year ending December 31, 1879.

During the year there were 153 alarms of fire, and 147 silent fires, for which no alarms were sounded, with a total loss of $192,654.51. Whilst the number of actual fires were less, and the losses a little more than the preceding year, yet the localities where the fires originated were principally in the business portions of the city, and the liability to damage consequently greater. The Board desires to say in this connection, that had any serious conflagration occurred, the experience of the past year has proven that the expense of the department would have been greater than the amount appropriated for its maintenance by the City Council, and it

was only by the strictest and most rigid economy that the Board was enabled to keep within the amount appropriated.

The sum of $156,000 was appropriated for the expenses of the department for the year ending December 31, 1879, and the amount drawn was $155,993.66. In April last the ordinance, giving the authority to the Inspector of Public Buildings for the repairs of the engine-houses, was revoked and the authority vested in the Board of Fire Commissioners. The amount of money appropriated for these repairs was $7,000, and there was expended by the Inspector, prior to the time of its being turned over to the Board, the sum of $1,365.73, leaving a balance of $5,634.27. This amount has been all expended. This money has been judiciously used in making repairs and improvements to the houses, which were actually necessary. Engine House No. 1, Paca street, which has heretofore been much cramped for stable room and a proper space to store the feed needed by the company, has had a new stable built in the rear, extending out to Diamond street. The horse stalls have been turned, to front to the apparatus, thereby making a considerable difference in the time of getting out in response to alarms of fire. The engine-room has also been refitted in a substantial manner. This improvement, we consider, is one of the best which has been made in the houses of the department for a long time.

No. 12 Engine House has also been greatly improved. The stalls in this house have also been turned to front to the apparatus. The cellar has also been enlarged, and sev-

eral other improvements made. For a detailed report of the repairs and improvements to the houses, we respectfully refer you to the Report of the Chief Engineer.

The apparatus of the department is now in good condition, the most of it having been in service a long time, consequently the liability to damage is increasing each year. To maintain its present effectiveness, a liberal allowance for repairs will be necessary. During the past year, two of the engines have been rebuilt, and two new hose carriages added to the department to replace worn-out carriages.

The accompanying Report of the Chief Engineer contains full information as to the condition of the apparatus, hose and horses, the work that has been done in the several houses, also the record of fires, to all of which you are respectfully referred. You are also referred to the accompanying Report of the Superintendent of Police and Fire Alarm Telegraph.

The necessity for increasing the number of housemen in each of the several houses of the department has long been felt. The number of men on regular duty in each engine-house at present is three, and in each hook and ladder house two. There are nine hours in the day in the engine-house when there is only two men on duty, and there are six hours in the hook and ladder houses when there is only one man on duty, these being the hours allotted for meals. During these hours there frequently occurs alarms of fire when the apparatus is greatly delayed in responding for want of an additional man. This we consider a matter of great

importance, and in view of this fact, the Board respectfully recommends the passage of an ordinance, decreasing the number of men in each engine company from eight to seven, and decreasing the number of men in each hook and ladder company from ten to nine, and creating an additional houseman for each company. This arrangement will not increase the number of men in the department, but will add greatly to its efficiency.

The Board again desires to reiterate the request for the increase of the number of hook and ladder companies in the city of Baltimore. In the two previous reports to the City Council, the Board recommended the locating of a hook and ladder company in the northwestern section, near the intersection of Pennsylvania avenue and Biddle street, and the removal of No. 2 Hook and Ladder Company to a locality in the neighborhood of Camden and Howard streets. By the removal of this truck to the southern section of the city, it will be made much more effective in cases of fire in this locality, where are located our heaviest mercantile, shipping and manufacturing interests. A company located in the northwestern section as proposed, will not only cover that locality, but will render valuable assistance in and contiguous to the neighborhood where it is proposed to locate it.

That portion of the city in the neighborhood of Union depot, on north Charles street, has grown to such a considerable extent in the past four or five years, and the liability to damage from fire so much greater that better protection in this respect is actually necessary. The companies which protect this locality at present, have a long distance to travel, and also heavy grades to

pass in reaching it, and the Board is of the opinion that steps should be taken at once to remedy the matter. It is, therefore, proposed, with the consent of your Honorable Body, to transfer No. 8 Engine Company from its present location, Mulberry street, near Schroeder, to some point in the northern section, contiguous to the location above referred to, where it will not only render good service, but will also be enabled to reach the centre of the city quickly in case their services should be called for. This is an urgent requirement for the protection of life and property in these sections where the houses and population have not only increased more than fifty per cent. in the past few years, but are still steadily increasing. This fact has been so apparent for some time past, and the necessity for this increase in the apparatus of the department so apparent, that our predecessors in office have from time to time called the attention of the Honorable the Mayor and City Council to it. We beg respectfully to repeat this suggestion and again urge the necessity for these changes and additions to the department.

The law to compel the managers of public places, such as theatres, churches, halls, &c., where large crowds of people congregate, to keep the aisles free from stools, &c., in order to afford more perfect means of egress in case of fire or panic, is a wise one. Recent experience has proven that most of the accidents at public resorts in cases of fire and panic, have resulted from the blocking up of the passages referred to. A slight disturbance in a crowded assemblage will often cause alarm, which, if it should terminate in a panic,

considerable damage to life and limb would perhaps be the result. This law should be carried out to its fullest extent, and we, therefore, beg to reccommend its most rigid enforcement, and the authority given to this department to have it properly enforced.

We respectfully recommend the passage of an ordinance for the better protection of life, by requiring the owners of all public buildings and manufactories to provide proper means of escape in case of a fire. This ordinance should be very clear on this subjeect, and should define what, by its provisions, is intended to be carried out; and it should also be the duty of some one to see that it is obeyed. It should be stated therein, that proper fire escapes should be placed on large factories for the use of the employees in cases of emergency. In the majority of our principal cities this subject has been agitated to a considerable extent within the past two or three years, experience having made it necessary that such a law should be passed and enforced. When we take into consideration the number of persons employed in these large factories, proper escape from the same is deemed a serious subject for consideration. In a great many of them there are quite a number of young people employed, which makes it necessary that proper means should be provided for their safety under the circumstances above referred to. This same law would also apply to places of public assemblages.

The Board has been impressed during the past two years with the necessity of strengthening the department by the addition of two chemical engine companies, to be located somewhere contiguous to the central

portion of the city; the cost of these engines is comparatively small when we take into consideration the vast amount of saving effected by their use. They can be easily handled with a small force, and can be gotten into service rapidly in the incipient stages of a fire; and when we also take into consideration the very valuable contents of the warehouses in the central business portion of the city, the saving from damage by water is so great as to make it apparent to all those who are familiar with the workings of fire departments. We have already in service twelve chemical fire extinguishers, which are carried on the apparatus of the three hook and ladder companies, and the carriages of Nos. 8, 9 and 13 Engine Companies, and handled by the members of the same. They have been used with good effect in a great many instances during the year, and have proven themselves one of the most useful and valuable appliances for the extinguishment of fires adopted by this department.

The Board desires to again call your attention to the urgent necessity for the passage of a law compelling the owners or managers of all theatres, public halls, hotels and hospitals to have fire alarm boxes placed therein, to enable the department to respond more promptly thereto in cases of fire.

We submit herewith a list of tables showing the expenses of the fire department in detail, for the year ending December 31st, 1879. Also an estimate of the amount which will be necessary for the next fiscal year. The Board, in explanation of the increased appropriation asked for the year 1880, would state, that

the cost of materials of all kinds used by the department has greatly increased since our last annual report, and it will require the exercise of the most rigid economy, with the amount asked for, to maintain the present effectiveness of the department.

Respectfully submitted,

SAMUEL W. REGESTER, *President.*
FERDINAND C LATROBE, *Ex-Officio.*
THOMAS W. CAMPBELL,
CHAS. B. SLINGLUFF,
JAMES E. TROTT,
SAMUEL HANNAH,
J. F. MORRISON,
Board of Fire Commissioners.

GEO. A. CAMPBELL, *Secretary.*

TABLES.

TABLE A.

Appropriation and Receipts for the year ending October 31st, 1879.

Amount appropriated by the City Council for Fire Department for year 1879.....	$156,000	00
Amount turned over to Fire Department account from Inspector of Buildings' Department, as per Ordinance No. 29.....	5,634	27
	$161,634	27
Amount drawn from City Register..... ...	161,627	90
Undrawn.....	$6	37

TABLE B.

Receipts from all Sources.

Stock in store-room December 31st, 1878		$874 64
Received from City Register, 1879		161,627 90
Received from fines		218 00
" " uniforms		163 71
" " sale of manure.		201 15
" " " horses		270 00
" " " old material		410 26
Received from insurance accident policy		312 50
Receipts from all sources		$164,078 16
Expenditures	$162,276 95	
Amount paid City Register for old material, &c., sold	1,263 12	
	$163,540 07	
To balance—Store-room, stock, December 31st, 1879	538 09	
		$164,078 16

TABLE C.

Expenditures for the year ending December 31st, 1879.

Salaries	5110,598 14
Apparatus	3,017 09
Apparatus repairs	7,865 70
Accident	1,165 88
Feed	6,044 62
Fuel	1,178 64
Furniture	750 40
Harness and repairs	897 39
Horse-shoeing	1,404 99
Hose	2,033 55
Horses	3,124 86
Ground rent	1,047 24
Gaslight	854 25
Oils, grease, paint, &c	1,249 07
Office expenses, (including pay of messenger)	468 33
Washing	1,243 62
Police and Fire Alarm Telegraph	9,753 18
Insurance premium on lives of members	2,250 00
Miscellaneous	1,152 25
Uniforms	198 39
Medicines	32 50
House repairs	5,634 27
Insurance, indemnity for accidents	312 50
	$162,276 95

TABLE D.

Company expenses for the year ending December 31st, 1879.

Engine Company No. 1	$11,071 79	
" " 2	8,437 84	
" " 3	9,369 78	
" " 4	9,980 89	
" " 5	8,504 59	
" " 6	8,388 26	
" " 7	9,120 65	
" " 8	8,515 29	
" " 9	8,214 28	
" " 10	8,628 55	
" " 11	7,965 93	
" " 12	10,444 07	
" " 13	9,066 88	
Hook and Ladder Company No. 1	8,858 59	
" " " 2	8,004 69	
" " " 3	6,895 52	
Reserve apparatus	706 12	
		$142,173 72
Office expenses	468 33	
Miscellaneous	1,152 25	
Police and Fire Alarm Telegraph	9,753 18	
Uniforms	198 39	
Insurance indemnity	312 50	
Officers' salaries, repairs, shoeing, &c	8,218 58	
		20,103 23
		$162,276 95

TABLE E.

Estimate of Expenses for the year ending December 31st, 1880.

Salaries	$110,600 00
Apparatus	6,876 00
Apparatus repairs	12,259 00
Accident	1,200 00
Feed	7,500 00
Fuel	1,500 00
Furniture	810 50
Harness and repairs	900 00
Horse-shoeing	1,405 00
Hose	2,000 00
Horses	3,500 00
Ground rent	1,200 00
Gaslight	1,000 00
Oils, grease, paint, &c	1,250 00
Office expenses, (including pay of messenger)	500 00
Washing	1,300 00
Police and Fire Alarm Telegraph	12,508 50
Insurance premium on lives of members	2,250 00
Miscellaneous	1,200 00
Medicines	100 00
House repairs	10,000 00
	$179,859 00

REPORT

OF THE

CHIEF ENGINEER.

REPORT.

OFFICE CHIEF ENGINEER, B. C. F. D.,

Baltimore, January 2, 1880.

Samuel W. Regester, Esq.,

President Board of Fire Commissioners,

DEAR SIR:

I herewith present to your honorable body the twenty-first annual report of the department for the year ending December 31, 1879, showing the condition of the apparatus and horses, quantity and condition of the hose, the number of fires and accidents to members, and other matters pertaining to the department.

The effective force of the department consists of one hundred and ninety-eight men, classified as follows:

One Chief Engineer,
Two Assistant Engineers,
Thirteen Foremen of Engine Companies,
Three Foremen of Hook and Ladder Companies,
Thirteen Enginemen,
Thirteen Assistant Enginemen,
Sixteen Hostlers,

Three Tillermen,
One hundred and four Firemen,
Thirty Laddermen.

They are divided into sixteen companies—thirteen of which are engine, and three hook and ladder companies.

Each company will also average five substitutes. These men give their services to the department for no compensation, except when on duty for regular members, and are always in the line of promotion, according to their good behavior and attendance.

APPARATUS.

The apparatus is divided as follows:

Thirteen steam fire engines in regular service,
Four steam fire engines in reserve,
Ten steam heaters for engines, located in the houses as follows: one each in Nos. 1, 2, 3, 4, 5, 6, 7, 9, 11 and 12,
Twenty-six four wheel hose carriages,
Four fuel wagons,
Three hook and ladder trucks in regular service,
Two hook and ladder trucks in reserve,
Four fuel tenders,
One supply wagon,
Twelve fire extinguishers—two of which are carried on each truck, and two on each of the hose carriages of Nos. 8, 9 and 13 engine companies,
Three new four-wheel hose carriages have been purchased and put in service at Nos. 1, 3 and 4 engine com-

panies. These carriages are built to carry four bushels of coal, in a box back of the spool, so as to take that much weight off the foot-boards of the large engines,

Four Concord wagons, painted red, with gongs attached, were purchased for the use of the officers of the department, and are located at the following houses:

Chief Engineer's at No. 2,
Assistant Engineer's at No. 7, Western district,
Assistant Engineer's at No. 6, Eastern district,
Superintendent of Telegraph at No. 1.

I would again respectfully call the attention of your honorable body to my recommendation of last year, in regard to the urgent necessity for the formation of another hook and ladder company in the western section of the city. No. 2 Truck, from its present location on Paca street, answers all boxes west of Calvert street, including Locust Point—an area of over seven square miles. The southern section of the city, around Spring Gardens, and at Locust Point, is rapidly being built up with large storehouses, grain elevators, and manufacturing establishments, employing a great number of hands. From No. 2 Truck House to Locust Point is two and a half miles, and it will take the truck from fifteen to twenty minutes to get there; and in case of a fire occurring in buildings where persons are in the upper stories, they would perish before the arrival of the truck, if all other avenues of escape were cut off. I would recommend that No. 2 Hook and Ladder Company be removed to a location near Camden street, and to answer all alarms south of Fayette street, and west of Jones' falls, and a new truck company be organized

and located in the vicinity of Pennsylvania avenue and Biddle street. From this location it would answer all alarms north of Fayette street and west of Calvert street.

I would also recommend the purchase of at least two chemical engines, to be located in the centre of the city. The experience of the chemical engine for extinguishing fires, without the use of water, has proved so successful that I can do no more than call the attention of your honorable body to the necessity of introducing at least two of them in the department at the earliest day practicable. Many fires occur every year in the business portion of the city, where such an apparatus would more than pay its cost, and serious damage by water would thereby be prevented.

Some of the relief valves that are in service on the engines are not reliable, being worn out and cannot be repaired. Six new ones are required.

I would also recommend that six more fire extinguishers be procured and put in service on the hose carriages of Nos. 2, 6 and 7 engine companies.

Some of the companies, and especially the hook and ladder companies, have been delayed several times during the past year by fires occurring during the meal time of the housemen. There are six hours in the twenty-four when there are but two men on duty at the engine-houses, and one at the truck-houses, the other man having gone to his meals. The engine companies cannot go to a fire with less than three men, and the truck companies with less than two. If this complement men is not in the house the apparatus must, therefore, wait until they come. I would respectfully recom-

mend that the City Council be petitioned to change the ordinance so as to increase the number of housemen to four in the engine companies, and three in the hook and ladder companies. Then, when one man has gone to his meals, there will be enough left to take the apparatus out in case of a fire occurring. By making this change it will greatly add to the efficiency of the department. This change can be made at a small additional expense, by making one of the firemen a houseman, thus leaving seven firemen, and making one ladderman a houseman, thus leaving nine ladderman, which is an ample number. The extra houseman would also assist at fires as a fireman. The engine companies would then consist of the following members: foremen, engineman, two assistant enginemen, hostler, and seven firemen; the hook and ladder companies, foreman, two tillermen, hostler, and nine laddermen.

During the past year several stables have been altered, so as to make the horses face the front. I would recommend that the improvement should be made in the houses where it has not already been done as soon as possible, to facilitate the apparatus in getting out, as every second saved is sometimes worth thousands of dollars.

REPAIRS AND ALTERATIONS.

Nos. 5 and 7 Engines are having new boilers put on, and bells put on instead of gongs, and other necessary repairs.

March 23, 1879.—A new air vessel, discharge pipes, and a new set of valves put in pump of No. 1 Engine.

March 23.—A new top put on air vessel, and new cups in pump of No. 12 Engine.

May 26.—New end put on axle of No. 6 Hose Carriage, the old one broke going to box 28.

May 26.—New gearing and chains put on No. 6 Engine.

May 26.—New perch pole put on No. 2 Truck, the old one was broken by the truck upsetting going to box 71.

June 7.—New end put on hind axle, face to steam chest, and a new set of bolts to frame of No. 7 Engine.

June 26.—New hind axle put on No. 5 Engine, in place of one broken while going to box 123.

August 6.—New set of gum valves put in pump, and new coil in smoke-stack of No. 4 Engine.

August 6.—New moulding on casing, new boxes on hind wheels, two new caps on wheels, both axles reset and wheels repaired on No. 12 Engine. This damage was done by the engine upsetting on the railroad track on Pratt street, when responding to box 31.

August 10.—A new set of brass boxes put on engine wheels, and axle reset on No. 2 Engine.

August 14.—A new set of valves and cups put on No. 3 Engine.

October 12.—New end put on axle of No. 7 Engine, in place of one broken while going to box 312.

October 16.—No. 6 Engine overhaulded and a bell put on in place of the gong.

October 19.—New hind axle put on No. 2 Engine, in place of the one broken while going to box 62.

October 28.—New end put on axle of No. 10 Engine.

October 30.—New brasses made for pump rods, down pipes of vacuum chamber and engine overhauled. No. 9.

November 12.—New end put on hind axle of No. 9 Hose Carriage, in place of one broken when going to box 18.

Nov. 12.—New ends put on front and hind axles of No. 5 Hose Carriage, in place of those broken when going to box 18.

November 15—New end put on hind axle of No. 10 Second Hose Carriage, broken when going to box 7.

HOSE.

During the past year there has been purchased for the department two thousand feet of two and a half inch gum hose, Maltese Cross brand, making the amount of hose now in service fifteen thousand seven hundred and fifty feet of good hose, and eleven thousand seven hundred feet of medium quality hose. The hose classed as medium quality have been tested at one hundred and forty pounds pressure. The hose is divided amongst the companies as follows:

No. 1 Engine Company have one thousand five hundred feet of good hose and five hundred feet of medium quality.

No. 2 Engine Company have one thousand and fifty feet of good hose and one thousand feet of medium quality.

No. 3 Engine Company have one thousand feet of good hose and one thousand five hundred and fifty feet of medium quality.

No. 4 Engine Company have one thousand seven hundren and fifty feet of good hose and eleven hundred feet of medium quality.

No. 5 Engine Company have one thousand feet of good house and one thousand feet of medium quality.

No. 6 Engine Company have nine hundred feet of good hose and nine hundred feet of medium hose.

No. 7 Engine Company have two thousand feet of good hose.

No. 9 Engine Company have one thousand six hundred and fifty feet of good hose and one thousand and fifty feet of medium quality.

No. 10 Engine Company have one thousand feet of good hose and thirteen hundred feet of medium quality.

No. 11 Engine Company have nine hundred feet of good hose and thirteen hundred feet of medium quality.

No. 12 Engine Company have one thousand feet of good hose, and one thousand feet of medium quality.

No. 13 Engine Company have fourteen hundred feet of good hose and three hundred feet of medium quality.

HORSES.

There are seventy-two horses, used as follows:

Thirteen engine companies, four horses each.

Three hook and ladder companies, two horses each.

Four horses for the use of Chief and Assistant Engineers.

Three horses used by the Telegraph Department.

One horse used by the Veterinary Surgeon, and six spare horses. Nine horses have been exchanged and two have died.

CASUALTIES.

The casualties that have happened in the different companies of the department during the past year will be found herewith, the causes of such, the length of time each member was off duty thereby; also the number of deaths:

No. 1 Engine Company.—Hostler L. S. Fresh, kicked by one of the horses, July 13; off duty 16 days. Fireman Chas. Minton, hands badly burned at a fire on Jasper street, box 321, July 13; off duty 8 days.

No. 2 Engine Company.—Firemen John Young, ankle sprained at fire on Commerce street, box 125, August 3; off duty 4 days.

No. 3 Engine Company.—Assistant Engineman James Brown, wrist sprained by falling off hose carriage; off duty three days. Fireman J. B. Lehman, overcome with smoke at fire on Gay street, box 4; off duty 2 days.

No. 4 Engine Company—Substitute B. Price, left foot bruised by iron grating falling, at fire on Howard street, box 413, February 1st; off duty 48 hours.

No. 5 Engine Company—Engineman Corrigan, foot mashed by horse treading on it when drilling in the house; off duty one day. Fireman Joseph L. Chason has been off duty sick since August 12.

No. 6 Engine Company—Fireman J. W. Harper, face cut by falling slate at the fire on Baltimore street, January 8, box 415; off duty 19 days. Firemen H. J. Edell, head cut by falling off hose carriage, April 14; off duty 35 days.

No. 8 Engine Company—Fireman Greenburry Chapman, right hand badly burnt at fire on Saratoga street, box 45, March 10; off duty 17 days. Substitute John Gaffney, hand cut by falling slate at fire on Pratt street, box 514, March 20; off duty 7 days. Fireman A. J. Walters, arm and leg injured by being thrown from hose caariage when answering alarm from box 431, April 25; off duty 9 days. Foreman Thomas Murphy, ankle sprained by being thrown off the engine when it collided with an ice cart, answering general alarm box 31, August 3; off duty 11 days. Fireman Jacob Stouffer, foot mashed by the wheel of hose carriage running on it when backing in the house; off duty 17 days.

No. 9 Engine Company—Substitute Thomas Cook, left arm crushed by hind wheel of hose carriage running over it when returning from fire, box 261, September 8; is still off duty.

Engine Company No. 10—Hostler Henry Dunn had his ankle sprained in the stable May 26; off duty 3 days. Hostler Henry Dunn had his ankle bone fractured by the saddle-horse falling down when responding to a second alarm from box 3; off duty three months and 22 days. Fireman John O'Leary sprained his back by falling in a window at a fire on Stricker street, box 46, August 9; off duty 7 days.

Engine Company No. 11—Fireman Ebenezer Smith sprained his ankle when running to box 236, February 28; off duty 35 days. Fireman Henry Seipple was thrown from the hose carriage, and the hind wheel passed over his right thigh and hand, when responding to box 172, July 4; off duty 59 days. Fireman James Kelly was thrown from the hose carriage and the hind wheel ran over his great toe on right foot, when responding to box 172, July 4; off duty 66 days. Fireman Miles Whalen was badly burnt about the face and hands by the explosion of a gasoline tank at the fire on Burke street, box 17; off duty 25 days.

Engine Company No. 12—Fireman John Mullen had his ankle sprained by falling in a hole at the fire on the coal oil wharfs, Spring Gardens, box 64, September 22; off duty 18 days.

Engine Company No. 13—Engineman John Deal, hand mashed at the fire on Gilmor street, box 371, December 4; off duty 4½ days. Fireman Edward C. Keyser had two ribs broken by one of the horses knocking him down in the engine house during an alarm of fire from box 4, June 26; off

duty 22 days. Fireman William Clabaugh, back sprained at the fire on Gilmor street; off duty 7 days. Fireman Geo. Bowers was overcome by the heat at box 382, August 5; he did not go off duty.

Hook and Ladder Company No. 1—Ladderman John Farr had his left arm broken when responding to alarm of fire from box 541, November 6; he is still off duty. Ladderman George H. Haskell, back sprained raising the five-story ladder at the fire on Baltimore street, box 415, January 3; off duty 16 days. Ladderman James L. Southcomb, overcome with smoke at box 4, June 30; off duty 18 days.

Hook and Ladder Company No. 2—Ladderman Paul Hoffman, ankle sprained at fire on Locust Point, box 8, December 8; off duty 5 days, Ladderman Paul Hoffman had his hands badly cut with glass at box 42, January 23; off duty 14 days. Foreman Frederick Marston, hand badly cut, June 27; not off duty. Ladderman Wesley Lilly over come with heat at box 31, August 3; off duty 1 day. Ladderman Paul Hoffman overcome by heat at box 31, August 3; off duty 5 days. Ladderman Lewis Pistel, cut in the leg by a pick at box 35, November 20; off duty 2 days. Ladderman E. W. Windle sprained his ankle while responding to box 62, December 6; off duty 1 day.

Hook and Ladder Company No. 3—Hostler Wm. E. Vanrossum had his left foot mashed by a horse treading on it in the stable, August 18; off duty

14 days. Ladderman Nathaniel Warmsley went off duty sick December 28, 1878; has been off since; sick with consumption.

DEATHS.

Hook and Ladder Company No. 1—Ladderman William K. Lockington died April 30, 1879, from consumption; he had been off duty 1 year.

Engine Company No. 2—Fireman Louis R. Mills died September 21, of consumption; he had been off duty 8 months.

Engine Company No. 3—Fireman William H. Ward died September 3, of consumption; he had been of duty 8 months and 3 days.

Engine Company No. 6—Fireman Chas. T. Wright died of dropsy December 16; he had been off 8 months and 17 days.

FIRES.

The number of alarms during the past twelve months was 300, of which 153 were telegraph alarms and 147 were extinguished without giving a telegraph alarm. The losses amounted to $192,654.54, which is an increase of $36,052.62, compared with the losses of the twelve months preceding.

But one fire occurred that done any damage to the surrounding property, which was at Nos. 347 and 349 west Baltimore street, where the fire had gone into the

adjoining Mansard roof before the alarm was given. During the past twelve months there have been six second alarms and three general alarms, which were given for the following fires:

January 8—Box 415, time 8.35 P. M.; second alarm 8.39 P. M.; general alarm 8.45 P. M.; five-story brownstone front buildings with Mansard roofs, Nos. 347 and 349 west Baltimore street, occupied by Ash & Son, manufacturers of clothing, and Passano & Co., dealers in notions. The adjoining building, occupied by Haynes & Co., dealers in queensware, lamps and oils, had the roof burned off. Damage $51,902.89.

March 20—Box 514, time 10.07 P. M.; second alarm 10.08; five-story brick building, No. 366 west Pratt street, occupied by Broderick & Bro., dealers in paper stock; the fire was confined to third, fourth and fifth floors. Damage $3,491.80.

July 9—Box 3, time 12.35 P. M.; second alarm 12.40 P. M. Test alarm given by the Board of Fire Commissioners to the officials of the City of Philadelphia.

July 10—Box 5, time 3.58 P. M; second alarm 4 03 P. M.; seven-story brick building, with Mansard roof, situated on Baltimore, Light and German streets. The fire was confined to the basement. Damage $600.—Carrollton Hotel.

August 3—Box 31, time 10.27 A. M.; general alarm 10.37 A.M.; a three-story brick building, corner of North and Pleasant streets, occupied by Jenkins & Sons,

dealers and curers of meats and lard. The second and third stories were badly damaged, and roof burned off. Damage $9,675.

August 7—Box 412, time 10.25 P. M.; second alarm 10.30 P. M.; a three-story brick building, corner of Fayette street and McClellan's alley, occupied by Riddlemosher & Co. as a carriage factory. The fire was confined to the second and third stories. Damage $3,498.

August 13—Box 414, time 7.55 P. M.; general alarm 8.03 P. M.; a double four-story brick building, Nos. 12 and 14 North Howard street, occupied by Davis & Miller, dealers in drugs and oils. Damage $15,213.91.

September 8—Box 431, time 6.33 A. M.; second alarm 6.40 A. M.; a three-story brick building, No. 465 West Pratt street, occupied by Ridgeway & Co., manufacturers of wooden safes, and Rand & McSherry, manufacturers of furniture. The fire was confined to the rear part of the building. Damage $2,050.67.

September 8—Box 6, time 11.24 P. M.; second alarm 11.30 P. M.; four-story brick building, No. 32 Light street, occupied by Gilbert & Co., wholesale grocers. Damage $5,917.78.

September 19—Box 17, time 3.21 P. M.; second alarm 3.30 P. M.; a three-story brick building, situated on Burke street, near Canton avenue, occupied by Garey & Co. as a tin-can factory; a man was killed by the wall falling on him. Damage $10,149.21.

During the past twelve months the department has attended the following fires in Baltimore county:

May 2—Box 353, time 3.05 P. M.; two three-story stone buildings and one two-story frame building, situated on Mount Royal lane, near Boundary avenue. Damage $1,200. In service Nos. 7 and 13 Engine Companies, and No. 2 Hook and Ladder Company; one hour and thirty minutes.

August 5—Box 382, time 9.32 A. M.; a three-story brick building, No. 723 Madison avenue, near Druid Hill Park. No. 13 Engine Company and No. 2 Hook and Ladder Company were in service 30 minutes. Damage $100.

August 13—Box 28, time 8.02 A. M.; three-story brick building, situated on the Belair road. Damage slight.

November 17—Box 471, time 5.41 P. M.; a six-story frame and stone building, situated on the Franklin road, about a mile and a half from the city limits, occupied by A. L Webb & Son as a flour mill. The building was destroyed. Damage $20,000. No. 8 Engine Company and No. 2 Hook and Ladder Company were in service two hours and forty-seven minutes, and prevented the fire from spreading to the surrounding property.

REPAIRS AND ALTERATIONS NEEDED TO THE HOUSES OF THE DEPARTMENT.

No. 1 Engine Company—Twenty-five feet partitioned off from the sleeping Apartment, to make a

sitting-room for the members, a pole put up behind the blind door, rooms in second-story papered, roof repaired and house painted.

No. 2 Engine Company—Five stalls turned to face the front, engine-room wainscoted, stairway and bath-room altered, wall on east side stripped and plastered, rooms in second-story papered and house painted, and pole put up.

No. 3 Engine Company—New floor in engine-room, ceiling wainscoted and side walls whitecoated, sleeping-room and passage papered, house painted and a pole put up.

No. 5 Engine Company—Pit dug under the engine and for the heater, third story papered and wood work painted.

No. 6 Engine Company—Roof painted.

No. 7 Engine Company—Front pavement repaired and new gate made to open on Eutaw street, from the yard.

No. 8 Engine Company—New floor in stable, and house painted.

No. 9 Engine Company—Pipes in water-closet changed and house painted.

No. 10 Engine Company—The joist and floor in engine-room has rotted away, the wall on the east side is bulged out, the rooms on the second story should be stripped and plastered, the house needs painting, and pole put up for the men to come down on.

No. 11 Engine Company—Four stalls turned to face the front of the house, stairway turned, house painted and a pole put up.

No. 12 Engine Company—New floor in back part of engine-room, the wall on the east side stripped and plastered, and the house painted.

No. 13 Engine Company—Four stalls turned to face the front, house painted and a pole put up.

No. 1 Hook and Ladder Company—Front pavement repaired.

No. 2 Hook and Ladder Company—Sleeping-room papered, house painted, a ventilator put in ceiling of sleeping-room, and two poles put up.

The following alterations and repairs have been made to the houses of the department during the past year:

No. 1 Engine Company—The stable has been extended back to Diamond street, two stories in height; six horse stalls put up to face the front of the house, a new stairway put up in the front part of the engine-room, new floor in the engine-room, and the first story varnished and painted.

No. 2 Engine Company—New floor in engine-room and a bridge over the gutter in front of the house.

No. 4 Engine Company—New wood work put up in loft of stable, and a new tin roof put on part of the stable and sleeping-room. These repairs were necessitated by the fire which occurred on the morning of December 9.

No. 5 Engine Company—New floor and eight stalls put up in stable; engine-room, stable and stairway whitecoated, wood work on first and second stories painted, and new sheds put up in the yard.

No. 7 Engine Company—New floor in engine-room.

No. 8 Engine Company—New floor in stable, platform in yard, and shed in yard repaired.

No. 9 Engine Company—Parlor and wood work painted.

No. 10 Engine Company—New floor in stable and new plumbing work in bath-room and water-closet.

No. 11 Engine Company—New floor put in the stable.

No. 12 Engine Company—Cellar dug under front part of engine-room, new joist and floor put in front part of engine-room, stairway turned around, brick partition taken down between the stable and engine-room, a truss girder put in to carry the wall above, four horse stalls put under the girder to face the front of the house, one stall in the rear, and new floor and wainscoting in the stable.

No. 13 Engine Company—New floor put in stable and drain altered.

No. 1 Hook and Ladder Company—New floor in truck-room, ceiling wainscoted, two stalls put up, one on each side of the pole of the truck; a large door, 13 feet wide, made in the centre, and two small doors made, one on each side of the large door; bedroom and parlor papered, and house painted.

No. 2 Hook and Ladder Company—Sash and shutters put in ventilator and stalls repaired.

A new set of Sarven patent wheels has been purchased. They will be used on the large engines as reserves. The hind wheels of Nos. 1 and 4 Engines have had new felloes and tires and some new spokes put on them, and are now as good as new.

The annual parade of the department took place on Thanksgiving Day. The companies met on Broadway and marched through some of the principal streets. The apparatus, horses, harness, and everything belonging to the department was in first-class condition. The apparatus was rescraped and varnished before the Parade, the work being done by members of the department.

In conclusion, I desire to reiterate my acknowledgment to the members of the Board for the confidence reposed in me, and for their uniform kindness and courtesy, and to the members of the department, one and all, for their promptness and willingness at all times when called upon. I also desire to return my thanks to the officers and members of the Police Department for their kindness, displayed at all times, and their valuable aid rendered to the Fire Department. I cannot close without returning my thanks to the officers of the Fire Alarm Telegraph, for their promptness in rendering good service to this department when called upon.

Very respectfully submitted,

JOHN M. HENNICK, *Chief Engineer.*

FIRE RECORD.

Date.	Box.	Hour A. M.	Hour P. M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Service.	Style of Buildings.	Remarks.
January.										
Wedn'y 1	362	.....	7.05	54 Myrtle avenue.	Alfred Haynes.	Dwelling.	.....	2	Three-story brick	Children playing with matches; loss $100.
Friday 3	323	.....	4.42	210 Lanvale street.	Mrs. Steiner.	Dwelling.	.....	2	Three-story brick	Defective flue; loss $100.
Saturday 4	351	7.35	.....	343 and 345 Linden avenue.	Mrs. R. C. Barry Sam'l E. Egerton	Dwelling.	.....	2	Two three story brick.	Fire commenced in 343, and burnt through the joists to 345, on second floor; defective flue; loss $350.
Saturday 4	415	.....	1.42	379 W. Baltimore st.	Mansbach & Gump.	Wholesale liquor dealers.	1, 2	2	Four story brick	Fire confined to third and fourth floors; defective flue; loss $3000.
Sunday 5	216	.....	10.56	120 Aisquith street.	Charles Bauman.	Dwelling.	6	1	Three-story brick	Explosion of a coal-oil lamp; loss $50.
Tuesday 7	15	.....	5.10	116 S. Broadway.	Oppenheimer & Son.	Dry goods store and dwelling.	5	3	Three-story brick	Ignition of a leaky gas pipe from the flame of a candle; loss $30.
Wedn'y 8	415	.....	8.34	347 W. Baltimore st.	D. F. Haynes & Co.	China & Glass ware.	1, 2, 3, 4, 5, 6,	1, 2, 3	Two story brick and mansard roofs.	Fire commenced in 349, which was burnt out; 347 had roof burnt off, and stock damaged by
				349 W. Baltimore-St.	Stribling & Todd Louis Ash & Son, Louis Passano,	Printers Whol'. Cloth'rs, Notions, &c.	7, 8, 9, 10, 12, 13			

												water; cause unk'n; loss $71,902.39; second alarm 8.40 p. m; general alarm 8.46 p. m
Friday	17	46	.....	11.35	942 W. Baltimore st.	F. B. Kirwan.	Cigar store and dwelling.	8		2	Three story brick	Ignition of a leaky gas pipe; loss $325.
Wedn'y	22	53	.....	11.30	Columbia avenue and Bayard street.	City of	Baltimore.	.....	.....	.....	.....	Explosion of a coal oil lamp; loss 5.
Thurs'y	23	42	8.41	.....	Eutaw street and Louisiana avenue.	Jacob Lindau.	Grocery and liquor store	1, 2, 7, 10		2	Three-story brick and garret.	Ignition of fumes of alcohol; caused by an overheat'd stove, which caused an explosion; 300 brls. whiskey stored that did not take fire; loss $7400.
Saturd'y	25	163	.....	8.57	314 E. Baltimore st.	Dr. Jas. Cockrill	Dwelling.	.....		3	Four-story brick	Lighted match thr'wn on floor; loss $30.
Monday	27	36	.....	3.51	Shield's alley, rear Lanvale street.	A. Malone.	Carpenter shop	13		2	One-story frame	Children playing with matches; loss $20.
Thurs'y	30	4	.....	8.33	210 W. Baltimore st.	J. S. Hopkins & Co.	Fancy house furnishing goods.	1, 2, 3, 4, 6, 7	1, 2, 3		Four story brick	Originated in Hopkins & Co, third floor, and burnt to fourth; roof partly burnt off; stock badly damaged by water; fire extended to fourth floor of Sadtler & Sons' building, the lower part of which was occupied by Martinez; stock damaged by water; Justis &
					212 " "	Sadtler & Sons.	Jewelry goods.					
					214 " "	Martinez & Co.	Tobacconists.					

Record of Fires and Alarms for the year ending December 31, 1879.

Date.	Box.	Hour A.M.	Hour P.M.	Locality.	Occupant	How Occupied.	Engines in Service.	H. & L. in Service.	Style of Buildings.	Remarks.
										Co. occupied second floor; damaged by water; loss $11,107 45.
Friday 31	5	.....	5.08	20 Light street.	Wm. Lanahan & Son.	Wholesale Liquor dealers.	.....	.....	Four-story brick.	Heat from boiler set fire to wood-work; loss nothing.
February.										
Saturday 1	413	.....	10.13	28 and 30 N. Howard street.	H. Biggs & Co.	Toy and Children's carri'gs	1, 2, 3, 4, 6, 7	1, 2	Four story brick.	Fire confined to cellar; cause unkn'wn; loss $7850.
Monday 3	261	10.05	.....	Eager street and Central avenue.	Wm. Simpson & others.	Feed store and dwelling.	9	1	Three-story brick back-building.	Stovepipe running through partition; loss $200.
Tuesday 4	315	7.50	.....	Monument street and Plover alley.	A. J Albert.	Mount Vernon hotel.	7	2	Four-story brownstone.	Fire under floor of dining-room; was confined there; caused by an overheated boiler; loss $201.65.
Wedn'y 5	236	12.50	.....	Madison alley and Fairmount avenue.	Jacob Webber.	Smoke house.	9	3	Two-story brick and frame.	Incendiary; loss $100.
Friday 7	5	.....	6.42	183 W. Baltimore st.	A. Sigmund.	Hat and Fur store.	4	1	Four-story brownstone.	Heat from furnace-pipe setting fire to ceiling; loss $44 86.
Saturday 8	312	9.58	.....	N. E. cor. Lexington and Howard sts.	J. G. Hetzell.	Tinner's store.	.....	2	Three-story brick	Sparks from a fire-pot; loss $10.

Saturday	8	41	.....	6 58	No. 7 N. Charles st.	Henry Bohn.	Tailor store.	.....	1,2	Four-story brick.	Explosion of a coal oil lamp; loss $300.
Sunday	9	426	1.22	....	859 W. Baltimore st.	D. T. Jones, second and third floors. Jos Warfield, first floor.	Dwelling and provision store.	8	2	Three story brick.	Window curtains set fire by gas bracket loss $75.
Monday	10	13	.....	5.45	19 Granby street.	Unoccupied.	Dwelling.	.....	1	Three-story brick	Chimney; persons cleaning up house; loss nothing.
Wedn'y	12	372	.....	8 00	9 Parrish street.	Jno. Butler.	Dwelling.	.....	2	Two story brick.	Chimney; no damage.
Thurs'y	13	123	.....	5.42	N. E. cor. Pratt and Gay.	Jno. Gibbs & Co	Segar factory.	3	1	Four-story brick	Fire on fourth floor; wooden boxes tak'g fire from an overheated stove; loss $100.
Friday	14	6	8.58	.....	18 Second street.	Hugh Jenkins & Co.	Offices.	.....	.....	Three story brick	Chimney; no loss.
Sunday	16	15	3.17	.....	15 S. Broadway.	Frank Elliott.	Clothing store and dwelling	5	3	Three-story brick	Overheated stove setting fire to woodwork; loss $3287.88
Monday	17	26	.....	6.40	478 N. Gay street.	J. F. Buckler.	Restaurant and dwelling.	.....	1	Three-story brick	Overheat'd stovepipe; loss $40.
Saturd'y	22	123	2.56	.....	27 W. Pratt street.	Henry Burgen.	Liquor store and dwelling	.....	1	Three-story brick	Cause unknown; loss $125.
Tuesday	25	45	.....	10.13	Saratoga and Poppleton streets.	Clement Hickman.	Feed store.	8	2	Three-story brick	Cause unknown; loss $200.
"		52	.....	5 33	173 S. Sharp street.	Mrs. J. Marks.	Second-hand store.	2	2	Three-story fr'me	Explosion of a coal oil lamp; loss $90.
Thurs'y	27	151	.....	7.50	7 Dallas street.	Clara Sharp, colored.	Dwelling.	3,5	3	Two-story brick.	Woman and child burnt to death; cause explosion of coal oil lamp; loss $285.

Record of Fires and Alarms for the year ending December 31, 1879.

Date.	Box.	Hour A. M.	Hour P. M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Service.	Style of Buildings.	Remarks.
Friday 28	236	.....	9.18	.....	.....	.....	.....	.....	.....	Test alarms by Board of Fire Commissioners.
March.										
Friday 7	326	7.35	.....	376 Pennsylvania av.	F. T. Miller.	Grocery and dwelling.	.....	2	Three-story brick	No damage.
Saturday 8	5	6.48	.....	22 and 24 German st.	Thomas O'Brien.	Restaurant and dwelling.	.....	1, 2	Three-story brick	Heat from chimney setting fire to roof; loss $67.
Monday 10	43	12.15	.....	434 Saratoga street.	Geo. P. Hamlin. Owen M. White.	Feed store. Carriage fact'y.	8, 13	2	Two-story brick	Cause unknown; loss $500.
" 10	64	.....	4.03	Rear of 670 Light st.	M. Haskens.	Frame stable.	.....	.....	Two-story frame.	Children playing with matches; loss $50.
" 10	53	.....	10 24	Bartlett alley.	B. M. Oil Works	Oil still.	.....	2	Two-story frame.	Cock blown out of still; loss nothing.
Tuesday 11	51	.....	7.30	50 Light street.	DeCorser Bosley	Harness and collar fact'ry	2, 4	1, 2	Four-story brick.	Defective flue; loss $280.92.
Thurs'y 13	251	10 10	.....	Aisquith and Biddle.	McAtee & Co.	Feed store.	.....	.....	One-story frame.	Sparks from furnace; loss $15.
Sunday 16	56	2.03	.....	Rear of 340 S. Sharp (Peach alley.)	Julius Kochler.	Coffin factory.	2	2	Two story brick.	Spontaneous combustion of greasy rags; loss $20.
" 16	23	.....	9.40	18 N. Caroline street.	M. Greenbaum.	Dwelling.	.....	.....	Three story brick	Explosion of a coal oil lamp; loss $100.
Tuesday 18	42	.....	7 55	152 Lexington street 154 " "	D. Bamberger. E. Rosenbaum.	Silks, velvets, and millin'ry goods.	4	1	Three story brick	Defective flue; fire confined to upper floors; loss $2404 50

Thurs'y	20	2	13	6.03	29 W. Baltimore st.	Union Tea Co.	Tea store.	4		1	Four-story brick	Defective flue; loss $150.
"	20	5	14	10.08	366 W. Pratt street.	Broderick Bros.	Cotton and woolen rag dealers.	1, 2, 4, 7, 8, 10		1, 2	Five-story brick.	Spontaneous combustion in fourth and fifth floors; roof burnt off; loss $3491.80.
April.												
Friday	4	4	14	9.05								Test Alarm by Fire Commissioners.
"	4	1	56	9.53								do. do.
Saturday	5	2	31	2.40	116 N. Caroline street	Mrs. M. Wilson.	Dwelling.				Three story brick	Bed on fire; carelessness; loss $150.
Sunday	6	3	45	6.54								Alarm given by a party who saw smoke issuing from a row of unfinished buildings, it having been made by a watchman.
Tuesday	15	2	32	1.08	Dallas & Hampstead.	Bowers & Nicoli,	Wagon containing barrel of city gas'line lamp oil.	9		1		Cause of fire unk'wn; the oil ignited from some unknown cause; the flames were as high as the tops of the houses; several shutters were burnt off; loss $20.
Monday	21	2	51	2.14	45 Chew street.	J. Miskelly.	Dwelling.	9		1	Three story brick	Sparks from a tinner's fire-pot; loss $250.
Wedn'y	23	4	31	4.45	163 King street.	F. Niemyer.	Machine shop.			2	Three story brick	Sparks from a stack; roof burnt; loss $35.
Friday	25	4	31	6.16	Boyd street, (rear 320 W. Lombard st.)	Unoccupied.	Stable.			2	Two-story brick.	Incendiary; loss $100.

Record of Fires and Alarms for the year ending December 31, 1879.

Date.	Box.	Hour A. M.	Hour P. M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Service.	Style of Buildings.	Remarks.
Wedn'y	30	42	3.04	.....	11 Pearl street.	A. G. Glaen.	Iron railing factory.	1, 2	2	Three-story brick	Loss $500; cause unknown; fire on second floor.
May.										
Friday	2	353	.....	3.03	Mount Royal Reservoir lane, Baltim're county.	Geo. Spence and others.	Dwellings.	7, 13	2	Two-story frame. One-story frame and store. One-story frame.	Overheated stove; loss $1200; Balto. Co. fire.
Saturd'y	10	28	10.45	.....	Belair avenue, near Federal street.	Hy. Eicrmann.	Hay packing shed.	9	1	Two-story frame.	Stock and machinery destroyed; boys playing with sunglass; loss $1800.
"	10	151	.....	12.07	229 E. Lombard street	Geo. M. Taylor.	Dwelling.	5	3	Three story brick	Sparks from chimney, setting fire to roof; loss $75.
Friday	16	27	9.35	.....	41 Milliman street.	J. Parlett.	Stable.	9	3	One-story frame.	Loss $50; cause unknown.
"	23	24	12.27	.....	206 N. Gay street.	F. Mengert.	Shed.	.....	1	One-story frame.	Overheat'd stove near frame partition; loss $25.
Saturd'y	24	421	11.42	.....	281 Saratoga street.	Jno. Gornell.	Dwelling.	.....	2	Three-story brick	Lady tread'g on parlor match on cupboard floor; loss $100.
Monday	26	71	2.40	.....	Fort avenue.	H. H. Chase.	Brick yard.	.....	2	One-story frame.	Heat from kiln; loss $200.

Wedn'y	28	32	3.09	.....	Howard street, opposite Centre street.	Baltimore City.	City College.	.....	2	Four-story brick	Loss $100; cause unknown; lot old rubbish.
Thurs'y	29	232	5.19	.....	33 N. Caroline street	Hy. Scherer.	Dwelling.	.....	3	Three story brick	Sparks from chimney; loss $5.
June Sunday	1	13	2.45	.....	Cen. of block bounded by Lombard, Concord, Pratt and Market Space.	C. Hollander & Sons.	Furniture factory.	2, 3, 4	1, 3	Five-story brick.	Spontaneous combustion of greasy rags and paints; loss $6112 16.
Monday	2	231	.....	12 15	51 McElderry street.	J. Doerflin.	Dwelling.	9	3	Three-story brick	Defective flue; loss $220.66.
Thurs'y	12	316	.....	7 37	56 Buren street.	Lancaster & Co.	Woolen Fibre factory.	4, 6, 9	1	Two and three-story brick and frame, and shed	Loss $1873.31; heat from boiler setting fire to woodwork.
Friday	13	46	.....	4.27	23 Vincent street.	Jno. Cooper.	Dwelling.	.....	2	Two-story brick	Chimney; loss none.
Saturd'y	14	42	7.13	....	18 Diamond alley.	Baltimore Company.	Carpet Cleaning.	.....	2	Three-story brick	Loss $25; heat from boiler
Sunday	15	17	.....	7 45	Maderia alley, near Gough.	Jno. Sinclair.	Grocery and dwelling.	.....	3	Three-story brick	Defective flue; loss $20.
Wedn'y	18	35	.....	9.45	60 Richmond street.	J. H. Butler.	Dwelling.	.....	2	Three-story brick	Explosion of a coal oil lamp; loss $10.
Thurs'y	19	512	.....	1.18	100 W. Lombard st.	J. C. Adams, (basement) Eutaw Paint Co	Varnish dealer Paints and Oils.	4	1, 2	Four-story brick	Caused by ignition of vapor from lighting dryers by a lighted match; a young man, a clerk, was so badly burnt that he died next day; loss $115.
Wedn'y	25	4	.....	5.02	N. E. corner German and Calvert streets.	Heywood & Co.	Chair factory.	4, 6	1, 2	Four-story brick	Vapor from varnish igniting from flame of a lighted candle carried by a work-

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Record of Fires and Alarms for the year ending December 31, 1879.

Date.	Box.	Hour A. M.	Hour P. M.	Locality.	Occupant.	How Occupied.	Engines in Service	H & L. in Service.	Style of Buildings.	Remarks.
										man in cellar; loss $200.
Friday	27	414	...	6.29	43 German street	L. Stem & Co.	Fancy trimmings and Cotton Gds.	1	1, 2	Four-story iron and brick.	Fire in fourth story; heat from a stove in a drying room; loss $2000.
July.											
Tuesday	1	212	.....	2 38	8 and 10 Second st.	Bateman & Hooper.	Machine shop.	4	1	Three-story brick	Sparks from chimney; roof burnt; loss $25.
Wedn'y	2	451	9.15	.....	155 N. Calhoun street	Thos. G. DeFord, Jr.	Dwelling.	8	2	Three story brick	Fire in second story; loss $180 29.
Friday	4	172	10.03	.....	495 E. Baltimore st.	William Taylor.	Dwelling.	9, 11	3	Two-story brick.	Fireworks on shingle roof; loss $550.
"	4	15	.....	1.16	265 S. Bond street.	L. Schlicher.	Restaurant and dwelling.	5	3	Three-story brick	Fireworks on shingle roof; loss $186 65.
Monday	7	213	.....	7 55	Low street, near Front.	Seltzer & Adams	Box factory.	6	1	Three-story brick	Slight fire in planing room; loss $25; sawdust ignited from a gas burner.
Wedn'y	9	3	.....	12.35	.....	.....	.....	.....	.....	.....	Test alarm given to Fire Commission'rs and Philadelphia Council; second alarm 12.40.

Thurs'y	10	51	.....	2.14	S. W. cor. Light and Balderston streets.	Gottschalk & Co.	Liquor dealers.	6	1	Five-story brick	Vapor from alcohol ignited fr'm lighted candle; loss $600.
"	10	5	.....	3.58	Light & German sts.	R. B. Coleman.	Carrollton Hotel.	2, 3, 4, 6	1, 2	Five-story and mansard roof.	Igniting of leaky gas meter from a jet; loss $500.
Friday	11	213	6.40	.....	Low st., near High.	Seltzer & Adams. Chas. P. Stevens	Box factory. Furniture factory.	Members of 3, 4, 6, 8, 11	1, 3	Two and three-story brick Five-story brick	Explosion of Seltzer & Adam's steam boiler; members of companies in service six hours removing remains from ruins; Mr. Seltzer, one of the proprietors, taken out dead; also, Mr. Ulrich, the engineer; several wounded men also rescued.
Monday	14	234	.....	5.35	Rear 78 N. Broadway.	B. Kinnear.	Stable.	5, 9, 11	3	Two-story frame	Boys smoking cigars; windows, doors and shutters of houses on Broadway (rear of them) scorched and burnt; loss $1000.
Thurs'y	17	24	5.15	.....	335 N. Front street.	Mrs. Williams & others.	Dwelling.	6	1	Two story brick	Bed taking fire from a lighted lamp; loss $10.
Friday	18	361	.....	9.16	221 Saratoga street.	Matthew O'Brien	Dwelling.	.....	2	Three-story brick	Childr'n playing with matches; loss $100.
Saturd'y	19	261	.....	9.21	30 Anthony street.	Wm. Cornelius.	Dwelling.	6	1	Three-story brick	Upsetting of a coal oil lamp; loss $20

DATE.	BOX.	HOUR A. M.	HOUR P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERVICE.	STYLE OF BUILDINGS.	REMARKS.
Sunday 20	212	.....	9.19	20 E. Baltimore st.	C. Schapele.	China & Glass store.	3, 4, 6	1	Three-story brick	Fire in cellar; unknown; $2,132.19 loss.
Monday 21	321	.....	7 35	39 N. Paca street.	R. Cornall.	Stable.	7	2	Two story brick	Sparks from chimney; loss $106.
Wedn'y 23	425	11.40	.....	2 S. Amity.	Jos. Carter, (col.)	Dwelling	.....	2	Two-story frame	Sparks from chimney; loss $5.
Thurs'y 24	123	.....	6.04	Buchanan's wharf.	James Corner & Sons.	Dealers in naval stores.	3	1	Four story brick	Refuse oil and turpentine that was being pumped from the cellar taking fire; loss $100; unkn'wn cause
Monday 28	14	4 15	.....	101 E. Lombard st.	Mrs. Fleischer & others.	Dwelling.	.....	1	Three-story brick	Caused by a woman going in a cupboard with a lighted lamp, and seeing a mouse jump from a shelf, she dropped the lamp; loss $100.
August.										
Sunday 3	31	10.25	.....	3 Pleasant street.	T. R. Jenkins & Sons.	Packers of meat.	1, 2, 3, 4, 6, 7, 8, 9, 10, 11	1, 2, 3	Three-story brick	The upper portion of the building, where the fire originated, was destroyed; caused by meat fal-

											ling in the fire from smoke-house; second alarm 10.37 a. m.; general alarm 10 43 a. m.; loss $9675.17.
Monday	4	134	5.36	.....	Block street, near Drawbridge	C. S. Maltby & Co.	Lime Shed.	2, 3, 5, 6, 11	1, 3	One-story frame shed.	Caught fire from lime kilns; loss $2000.
Tuesday	5	382	9 32	.....	723 Madison avenue.	Wm. Keyser.	Dwelling.	13	2	Three-story brick	Children playing with matches; loss $100
Thurs'y	7	412	.....	10.22	Fayette street and McClellan's alley.	Riddlemoser & Co.	Carriage factory.	1, 2, 3, 4, 5, 6 7, 8, 10.	1, 2, 3	Three-story brick	Sparks from chimney forge; fire in sec'nd story; second alarm 10 32 p. m.; loss $3498.22.
Saturday	9	4	12.15	.....	Rear of 133 W. Baltimore street.	Hermange & Brewer, Evening News.	Stable.	1, 2, 3	1, 2	Two-story brick.	Smoking pipes in stables; loss $200.
"	9	46	.....	11.08	Norris alley, between Baltimore and Fayette streets.	Peter Revell.	Livery stable.	8, 10, 13	2	Two-story brick.	Loss $1136 95; cause unknown.
Wedn'y	13	414	.....	7.55	12 and 14 N. Howard street.	Davis & Miller.	Drugs and Oils	1, 2, 3, 4, 6, 7, 8, 9, 10, 13.	1, 2, 3	Four-story brick	Stock and building badly damaged; loss $16,713.99; spontaneous combustion of chemicals; second alarm 8 03 p. m.; general alarm 8.13 p. m.
Monday	18	28	8.02	.....	Belair avenue, Baltimore county.	Wm. Miller.	Dwelling.	.....	.....	Three-story brick	Chimney.
Thurs'y	28	31	.....	2.06	Calvert and Franklin streets.	Mrs. Fairchild.	American hotel	.....	1	Four-story brick.	Heat from chimney setting fire to clothing in fourth story; loss $40.

Record of Fires and Alarms for the year ending December 31, 1879.

Date.	Box.	Hour A. M.	Hour P. M.	Locality.	Occupant.	How Occupied.	Engines in Service.	H. & L. in Service.	Style of Buildings.	Remarks.
Saturd'y 30	18	.....	6.29	Boston, near Patuxent.	Evans & Day.	Fruit and Oyster packers.	5, 11	3	One-story frame.	Building used for manufacture of gas from gasoline vapor took fire from furnace; loss $1000.
September.										
Tuesday 2	27	.....	9.48	8 Milliman street.	Mrs. Jackson.	Dwelling.	.....	3	Three-story brick	Window curtains taking fire from a lighted lamp; loss $10.
Wedn'y 3	252	.....	8.20	300 Greenmount ave.	Mrs. Ogle.	Dwelling.	.....	1	Three-story brick	Explosion of a coal oil lamp; loss $30.
Monday 8	431	6.32	.....	465 W. Pratt street.	Ridgeway & Co. Audon & McSherry.	Wooden Safes. Lounges and Tables.	1, 2, 8, 10, 13	1, 2	Two and three-story brick.	Shavings taking fire from furnace; second alarm 6 40 a. m.; loss $2050.67.
" 8	261	7.55	.....	257 E. Eager street.	Mrs. Rung.	Dwelling.	.....	1	Three-story brick	Overheated stove setting fire to fireboard; loss $10.
" 8	6	.....	11.24	32 Light street.	C. S. Gilbert & Co.	Wholesale Grocers.	1, 2, 3, 4, 5, 6, 7, 9, 10, 13	1, 2	Four-story brick.	Building badly damaged; stock destroyed; second alarm 11.30 p. m.; loss $5917 17.
Friday 12	523	8.32	.....	67 S. Paca street.	Mrs. Pettett.	Dwelling.	2	2	Two-story brick and garret.	Sparks from a stack; roof burnt; loss $108.96.

Tuesday	16	241	.....	6 43	91 N. Holliday street.	Blair Bros.	Paint factory.	4, 6, 9	1	Two story brick.	Vapor from oil igniting from furnace; loss $1500.
Friday	19	17	.....	3.21	11 Burke street.	Garey & Co.	Tin Can fact'ry	3, 5, 6, 9, 11	1, 3	Three story brick	Explosion of a benzine tank, used for heating iron; loss $10,725; several back-buildings damaged; man killed by falling walls; second alarm 3.30 p. m.
Monday	22	64	.....	9.51	Winan's wharf, near Brooklyn Bridge road.	Pratt & Callow.	Unoccupied coal oil works, for storage.	2, 10, 12	2	Four-story brick, and about two acres of frame buildings.	Wharf partly burnt; buildings burnt out; surrounding sheds saved; loss $15,000
"	29	16	8.23	.....	270 E. Lombard st.	Julius Flasher.	Dwelling.	.....	3	Three-story brick	Defective chimney; loss $175.
October.											
Thurs'y	2	164	.....	4 03	251 Bank street.	Mary Cray.	Dwelling.	.....	3	Two-story brick.	Unknown; loss $120.
Friday	3	216	3.30	.....	Aisquith & McElderry	Wm. Overbeck.	Grocery store and dwelling	.....	1	Three-story brick	Unknown; loss $80.
Saturday	4	361	.....	9.41	57 and 59 Arch street	James Hughes.	Soap factory.	1, 8	2	Three-story brick	Heat from furnace; loss $1328.65.
Sunday	5	351	2.52	.....	356 Madison avenue.	R. S. Etzler.	Dwelling.	13	2	Two-story frame.	Gas setting fire to partition; loss $160
"	5	53	.....	4.32	Near Bayard street, among brick kilns, Columbia avenue.	W. Pritchard.	Shed.	10	2	One-story frame	Boys smok'g in sheds; loss $10.
Wedn'y	8	512	.....	3 31	Uhler's alley, near Charles street.	Stowe & Bro.	Saw Mills.	.....	2	Three story brick	Sparks from furnace setting fire to shaving box; loss $50.
Monday	13	312	.....	3 53	51 Mulberry street.	G. T. Rosensteel.	Paint shop and dwelling.	.....	2	Three story brick	Slight fire in basem't; vapor from varnish taking fire from a

Date.	Box	Hour A.M.	Hour P.M.	Locality.	Occupant	How Occupied.	Engines in Service.	H. & L. in Service.	Style of Buildings.	Remarks.
										lighted lamp; loss $15.
Sunday 19	62	.....	3.38	358 Light street.	August Meyer.	Boot and Shoe house.	.....	.....	Three-story brick	Defective flue; loss $30.
Monday 20	61	10.49	.....	164 Hughes street.	.....	Dwelling.	.....	.....	Three-story brick	Leak in meter; no damage.
Thurs'y 24	423	12 02	.....	529 W. Baltimore st.	F. Harrison.	China & Glass store and dwelling.	.....	.....	Three-story brick	Spontaneous combustion of greasy sweepings; slight damage.
Sunday 26	24	12 58	.....	297 N. Gay street.	Hy. Cline.	Shoe store and dwelling.	6	1	Three-story brick	Cigar stump thrown on floor, set fire to rubbish; loss $300
November.										
Saturday 1	152	12.30	.....	50 S. Broadway.	D. D. Mallory.	Dwelling.	5	3	Three-story brick	Pantry on first floor, back build'g; caused by fire in grate in adjoining room setting fire to joists; loss $1,148 78.
Monday 5	313	.....	6 18	S. E. corner Charles and Centre.	J. S. Gittings.	St. James hotel	.....	2	Five-story brick.	Fire in second floor; defective flue; loss $835 72.
Thursday 6	421	4 12	.....	295 Lexington street.	John Feast.	Florist.	.....	2	One-story brick and frame.	Fire over the furnace, setting fire to woodwork; loss $10.

Thurs'y	6	541	.....	12.27	Rear of 241 and 243 S. Howard street.	Jos. Turner, (col.) Jno. Smith, (col.)	Two stables.	2	2	One story frame	Sparks from passing locomotive; loss $50
Friday	7	13	9.04	.....	1 Concord street.	J. B. Redgraves.	Lumber yard office.	.....	1	One-story brick.	Stovepipe running through ceiling; loss $6.
"	7	123	.....	8.39	36 S. Gay street.	J. Knox & Co and others.	Offices.	3	1,3	Three-story brick	Fire in a wooden partition, under stairway; loss $150.
Saturd'y	8	61	.....	10.05	Barre street, near Light.	U. H. Potts.	Saw Mill.	2	2	One-story brick and frame.	Sparks from furnace, setting fire to woodwork; loss $150.
Thurs'y	13	181	.....	4.39	Canton, near city limits.	.....	.....	.....	.....	.....	Smoke from a still, mistaken for fire.
Monday	17	28	.....	3.40	Belair avenue, near limits.	George Bauernschmidt & Son.	Summer bar shed.	9	3	One-story frame and brick.	Caused by boys smoking out a rabbit; loss $300.
"	17	471	.....	5.41	Franklin road, Baltimore county.	A. L. Webb & & Son.	Flour Mills.	8	2	Two-story stone and four-story frame.	Supposed friction from machinery; loss $20,000.
Tuesday	18	61	.....	9 39	Charles and York sts.	.....	Stable and Bakery.	2	2	Two-story frame and brick.	Loss $118.15; overheated oven.
Thurs'y	20	35	.....	3.35	5 Morris alley.	A. V. Cooper.	Stable.	.....	2	Two story frame.	Loss $80.73; cause unknown.
"	20	531	.....	3.16	40 St. Peter's street.	W. H. Fairall.	Dwelling.	.....	2	Three-story brick	Loss $11.50; Sparks from chimney.
Satur'y	22	351	.....	8.45	298 Madison avenue	Mrs. M. Montell	Dwelling.	.....	.....	Three-story brick	Gaslight setting fire to clothing; no damage.
Sunday	23	18	.....	2.11	Canton, Balt. county.	Consolidated Co	Coal Oil works	.....	.....	Brick and frame.	No damage.
Thurs'y	27	7	6.08	.....	Johnson st., n'r Cross	Peter Della.	Stable.	12	.....	Two-story frame.	Loss $40.
"	27	413	.....	6.32	.....	.....	.....	.....	.....	.....	Test alarm given to several members Washington Cabinet.

Record of Fires and Alarms for the year ending December 31, 1879.

DATE.	BOX.	Hour A. M.	Hour P. M.	LOCALITY.	OCCUPANT.	HOW OCCUPIED.	ENGINES IN SERVICE.	H. & L. IN SERVICE.	STYLE OF BUILDINGS.	REMARKS.
Sunday 30	351	11.37	.....	Rear 66 McCulloh st.	Mrs. Marriott.	Stable.	.....	.....	wo story brick.	Cause unknown; loss none.
December.										
Wedn'y 3	371	6.45	.....	Rear of 305 and 307 N. Gilmor street.	Geo. A. Rider.	Dwellings.	13	2	wo two-story frame.	Sparks from stove, setting fire to shavings; loss $170.80.
Saturd'y 6	18	.....	7 39	Essex street, near Chesapeake street.	Consumers' Mutual Gas Company.	Gas Generators	5, 9, 11	3	wo story brick.	Overflow of Naptha; two generators exploded; roof raised; glass broken, &c.; loss $200.
" 6	62	.....	9.39	294 Light street.	Chas. Lang.	Bakery and dwelling.	.....	2	Three-story brick	Caused by a girl accidentally dropping a dress on a lighted candle; loss $75.
Tuesday 9	3	2.08	.....	Rear of No. 4 Engine House, North st., near Lexington.	Baltimore City Fire Department.	Stable.	4	1	Two story brick.	Cause unknown; loss $400.
Friday 12	38	10.07	...	Rear 578 Pennsylvania avenue.	H. Worth.	Dwelling.	13	2	Two story frame.	Cupboard in second story; children playing with matches; loss $45.
Saturd'y 13	121	.....	5.08	S. W. corner Holliday and Second streets.	A. Hoen & Co.	Lithographers	.....	1	Four-story brick.	Explosion of a can of benzine; loss none.

Saturd'y	13	42	.....	5 41	N. E. corner Fayette and Eutaw streets.	Wolff & Schieff.	Furnit're manufactory.	1	2	Four story brick, mansard roof.	Spontaneous combustion of greasy rags; loss $1374.56.
Sunday	14	163	9.15	.....	442 E. Baltimore st.	Robert Stewart.	Dwelling.	.....	3	Three-story brick	Defective flue; no loss.
Thurs'y	26	241	1.26	.....	Front and Gay streets	G. H. Hartman.	Restaurant.	.....	1	Three-story brick	Lighted cigar thrown on a lounge; loss $53.77.
"	26	42	2 40	.....	186 Lexington street.	C. Becker.	Liquor store.	.....	2	Three-story brick	Heat from furnace setting fire to woodwork; loss $40.
Sunday	28	372	.....	5 22	427 Mount street.	J. F. Hall.	Dwelling.	.....	2	Three-story brick	Servant dropping a candle in shavings; loss $10.
Monday	29	416	.....	9.10	44 S. Greene street.	Mrs. O'Donnell.	Dwelling.	.....	2	Three-story brick	Heat from furnace; loss $50.

PAY ROLL.

ANNUAL SALARIES PAID MONTHLY.

1	Chief Engineer	$2,000
2	Assistant Engineers, (each)	1,400
1	Clerk and Secretary	1,200

Engine Companies.

13	Foremen, (each)	$500
13	Enginemen, (each)	1,100
13	Assistant Enginemen, (each)	900
13	Hostlers, (each)	900
104	Firemen, (each)	400

Hook and Ladder Companies.

3	Foremen, (each)	$500
3	Tillerman, (each)	900
3	Hostlers, (each)	900
30	Laddermen, (each)	400
199	Total.	

ENGINES

AND

Hook & Ladder Companies

APPARATUS AND MEMBERS.

ENGINE COMPANY No. 1.

(Went in Service February, 1859.)

Engine House situated on Paca St., North of Fayette St.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; one Wood Tender; Four Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
Jacob H. Hayward, Foreman	55	202 W. Fayette street	Ornament'l Painter.
J. W. Yeaton, Engineman ..	38	20 N. Paca street....	Machinist.
Chas. Freeburger, Ass't "	32	141 Mulberry street..	Machinist.
L. J. Fresch, Hostler.....	39	24 N. Paca street....	Carpenter.
James Humes, Firemen....	37	156 S. Sharp street..	Glass Cutter.
Wm. White, "	34	1 Chatsworth street..	Carpenter.
John H. Morgan, "	29	92 Pearl street.....	Paper Hanger.
G. N. Mackenheimer, "	43	217 W. Fayette street	Cigar Maker.
E. R. Addison, "	32	77 Amity street.....	Machinist.
Eugene Willis, "	31	97 N. Shroeder street.	Book-Keeper.
Chas. Minton, "	27	6 Jasper street.....	Cigar Maker.
R Close, "	26	176 George street ...	Huckster.

ENGINE COMPANY No. 2.

(Went in Service February, 1859.)

Engine House situated on Barre St., West of Sharp St.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; six Horses and Harness, (two of which are for the use of the Chief Engineer), with all necessary equipments for service.

NAMES.	GE	RESIDENCE.	OCCUPATION.
Jacob Hinds, Foreman.....	53	7 Hollins street.....	Chair Maker.
Thos. Wheatly, Engineman.	39	216 Lee street.....	Machinist.
Sam'l Stansbury, Ass't "	28	98 Barre street.....	Machinist.
John Pearce, Hostler.....	35	48 Barre street.....	Baker.
Thomas Rodenhi, Fireman..	42	128 S. Howard street.	Chair Maker.
John Young, "	41	223 Montgomery st..	Sail Maker.
Chas. Romoser, "	41	168 S Sharp street...	Gas Fitter.
B. T. Wirts, "	38	36 Church street.....	Collar Maker.
Geo. D. Wernex, "	36	68 S Paca street.....	Caulker.
C. H. Hammel, "	26	162 S. Sharp street...	Gas Fitter.
Chas. Causey, "	26	53 Henrietta street...	Laborer.
Chas. Klessel, "	26	92 Hill street.....	Ship Carpenter.

ENGINE COMPANY No. 3.

(Went in Service February, 1859.)

Engine House situated on Lombard St., East of High St.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; four Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
P. H. Flaherty, Foreman....	48	119 Gough street.....	Painter.
T. H. Humphreys, Enginem'n	38	79 S. Exeter street...	Machinist.
P. F. Moriarity, Ass't "	28	17 S. Front street....	Machinist.
P. F. Bradley, Hostler	35	12 S. Front street...	Ship Carpenter.
R. A. Lindsay, Fireman.....	36	56 S. Exeter street...	Paper Hanger.
J. J. Bradley, "	37	12 S. Front street....	Iron Moulder.
J. R. Battee, "	27	27 Castle street.....	Bricklayer.
J. F. Reilly, "	27	224 E. Lombard street	Machinist
E. A. Pierson, "	25	100 Granby street....	Paper Hanger.
A. H. Gier, "	25	40 S. Bond street....	Painter.
J. B. Lehman, "	29	53 S. Bond street....	Huckster.
J. L. Lindsay, "	38	73 S. Exeter street...	Paper Hanger

ENGINE COMPANY No. 4.

(Went in Service February, 1859)

Engine House situated on North St., near Fayette St.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; five Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
Geo. W. Horton, Foreman..	33	166 N. Exeter street..	Wire Worker.
J. J. McCoy, Engineman ...	37	25 Wyoming street...	Machinist.
Wm. Stanton, Ass't "	32	51 N. Gay street	Machinist.
J. Wernsing, Hostler.....	35	66 N. Holliday street	Hostler.
Jos. Farr, Fireman.....	39	3 Webb street	Laborer.
Geo. Bentz, "	39	13 Clay street.....	Baker.
James Allen, "	33	200 Barre street.....	Printer.
J. J. Walsh, "	36	151 Chestnut street..	Painter.
J. F. O'Halloran, "	43	221 Chestnut street..	Painter.
J. Oscar Healy, "	44	305 N. Bond street...	Carpenter.
J. P. Foreman, "	31	Fayette and Durham.	Mariner.
Frank Bradley, "	25	91 North street	Type Maker.

ENGINE COMPANY No. 5.

(Went in Service April, 1859.)

Engine House situated on Ann St., South of Pratt St.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; four Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
Wm. G. Miller, Foreman....	56	97 Gough street.....	House Carpenter.
Francis Corrigan, Enginem'n	46	280 Gough street	Machinist.
Jas. A. Brown, Ass't "	31	75 E Pratt street....	Machinist.
John Kelly, Hostler.....	29	44 Castle street.....	Painter.
James Peacock, Fireman....	56	113 S. Wolfe street...	Ship Carpenter.
Milton Spofford, "	44	46 N. Ann street.....	House Carpenter.
Chas. B. Clark, "	34	16 S. Ann street.....	Ship Joiner.
J. O. Krauch, "	43	147 Gough street...	Sheet Iron Worker
Benj. Price, "	35	64 Fawn street	Agent.
Joseph L. Chason, "	44	272 E. Pratt street...	Painter.
Edward Bailey, "	33	178 Gough street	House Carpenter.
Wm. T. Disney, "	30	73 S. Ann street.....	Bricklayer.

ENGINE COMPANY No. 6.

(Went in Service April, 1859.

Engine House situated corner Gay and Ensor Streets.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; five Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
W. W. Watson, Foreman...	46	45 N. Exeter street...	Paints and Oils.
M. Mulligan, Engineman....	38	107 E. Eager street...	Machinist.
R. J. Boyle, Ass't "	31	112 Hillen street.....	Machinist.
John Laracy, Hostler.....	30	111 N. Exeter street..	Driver.
T. B. Riall, Fireman.....	40	Front and Fayette...	Carpenter.
H. J. Edell, "	38	Central av. and Eager	Tailor.
W. West, "	36	147 N. High street...	Tinner.
D. H. Macauley, "	53	107 N. Broadway....	Painter.
J. W. Harper, "	44	139 Chew street	Bill Poster.
L. Blake, "	34	141 Harford avenue..	Painter.
B. Shaw, "	49	158 Monument street	Stone Cutter.
J. H. Cruse, "	47	121 Ensor street... .	Cigar Maker.

ENGINE COMPANY No. 7.

(Went in Service April, 1859.)

Engine House situated cor. Eutaw St. and Druid Hill Ave.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; five Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
George H. Houck, Foreman.	50	209 N. Eutaw street.	Railroad Agent....
Wm. T. Calvert, Engineman	40	172 N. Eutaw street..	Machinist.
John McKee, Ass't "	33	9 Parken street.....	Machinist.
Patrick Nixon, Hostler.....	40	68 Druid Hill avenue.	Hostler.
Henry S. Konig, Fireman...	50	183 N. Paca street....	Painter.
Lewis B. Schieve, "	28	9 New street.....	Paper Hanger.
John J. McMahon, "	28	80 Druid Hill avenue.	Plumber.
Jas. W. Bowersox, "	35	145 N. Pine street....	Painter.
John P. Welch, "	50	17 Diamond street...	Stone Cutter.
John H. Gildea, "	50	216 W. Biddle street.	Comb Maker.
Geo. W. Allen, "	36	267 W. Biddle street.	Painter.
Joseph Lavender, "	34	79 N. Pearl street....	Carpenter.

ENGINE COMPANY No. 8.

(Went in Service March, 1871.)

Engine House situated on Mulberry St., West of Schroeder St.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; four Horses and Harness; two Fire Extinguishers, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
Thos F. Murphy, Foreman.	32	116 N. Schroeder st...	Driver.
Wm. Thompson, Engineman	56	20 N. Schroeder street	Machinist.
M. F. Welsh, Ass't "	28	1 N. Schroeder street	Machinist.
Wm. J Stewart, Hostler....	29	142 N. Schroeder st..	Driver.
A. J. Walter, Fireman.....	42	387 Saratoga street...	Cigar Maker.
O. D. Burgess, "	42	48 N. Carrollton ave.	Silver Plater.
G. Chapman, "	47	108 Poppleton street.	Shoe Maker.
F. Johnston, "	36	483 Saratoga street..	Carpenter.
Geo. W. Krager, "	41	252 Fayette street...	Cigar Maker.
Jacob Stouffer, "	51	148 Pearl street.....	Printer.
H. Scott, "	27	501 Lexington street.	Bricklayer.
John J. Flynn, "	28	75 N. Schroeder street	Stone Cutter.

ENGINE COMPANY No. 9.

(Went in Service February, 1872.)

Engine House situated on Madison Street, near Broadway.

Has in charge: One Steam Fire Engine; one Reserve Steam Fire Engine; two Four Wheel Hose Carriages; two Fire Extinguishers; Five Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
F. D. Kerr, Foreman.....	39	336 E. Madison street	Rigger.
D. Rogers, Engineman.....	33	360 E. Madison street	Machinist.
Geo. Morris, Ass't "	38	199 Jefferson street..	Machinist.
John Reed, Hostler.	33	362 E. Madison street	Carpenter.
J. McDevitt, Fireman.....	37	345 E. Madison street	Harness Maker.
Geo. Meinberg, "	35	24 N. Central avenue.	Barber.
S. Uhlfelter, "	36	336 E. Madison street	Huckster.
S. Smith, "	33	390 E. Madison street	Bricklayer.
J. T. Harney, "	33	336 E. Madison street	Excavator.
C. Frey, "	27	295 E. Madison street	Huckster.
C. Neilson, "	26	242 N. Ann street ...	Bricklayer.
Geo. Brown, "	28	123 S. Ann street....	Bricklayer.

ENGINE COMPANY No. 10.

(Went in Service December, 1872.)

Engine House situated on Columbia Av., East of Poppleton St.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; four Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
W. R. Ward, Foreman.....	36	41 S. Calhoun street..	Carpenter.
F. K. Conway, Engineman..	27	56 Columbia avenue.	Machinist.
J. Walsh, Ass't "	31	588 W. Pratt street..	Machinist.
H. Dunn, Hostler.....	28	538 W. Pratt street ..	Driver.
A. Squires, Fireman.....	37	44 Columbia avenue .	Carpenter.
J. Keily, "	30	405 W. Pratt street..	Bricklayer.
Sam'l Young, "	39	43 St. Peter street ...	Tinner.
J. Keilholtz, "	34	402 W. Lombard st ..	Mantel Setter.
J. Brady, "	29	281 Columbia avenue.	Can Maker.
J. Lynch, "	28	84 S. Poppleton street	Railroader.
J. O'Leary, "	45	164 Ramsey street ...	Laborer.
H Walker, "	31	493 Lexington street.	Railroader.

ENGINE COMPANY No. 11.

(Went in Service December 1, 1874)

Engine House situated corner of Eastern Ave. and Gist St.

Has in charge: One Steam Fire Engine; one Reserve Steam Fire Engine; two Four Wheel Hose Carriages; five Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
Andrew Perry, Foreman....	52	210 Gough street.....	Pattern Maker.
John Calder, Engineman....	33	256 Gough st eet.....	Machinist.
F. L. Nelson. Ass't "	32	246 Aliceanna street..	Machinist.
J. W. Ledden, Hostler.	38	429 Eastern avenue..	Gold Beater.
H. R. Seipel, Fireman	30	123 S. Ann street....	Barber.
J. D. Daniels, "	39	123 S. Chester street .	Scroll Sawyer.
E. Smith, "	35	255 Gough street....	Shoemaker
J. B. Lehman, "	31	Wash. & Fairm'nt av.	Fruit Dealer.
G. Breitschwerdt, "	27	311 Bank street.....	Blacksmith.
Miles Whalen, "	31	Aliceanna & Eden sts.	Driver.
J. A. Kelly, "	26	29 Stiles street.....	Gas Fitter.
G. Mommonier, "	34	337 Eastern avenue..	House Carpenter.

ENGINE COMPANY No. 12.

(Went in Service February, 1875.)

Engine House situated corner Johnson St. and Fort Ave.

Has in charge: One Steam Fire Engine; one Reserve Steam Fire Engine; two Four Wheel Hose Carriages; one Wood Tender; five Horses and Harness, with all necessary equipments for service.

NAMES.	AGE	RESIDEN E.	OCCUPATION.
John P. Cosgrove, Foreman.	49	370 S. Charles street.	Shoemaker.
Michael Lycett, Engineman.	34	232 Battery avenue..	Machinist.
Geo. Linsmyer, Ass't "	37	250 Battery avenue..	Machinist.
Geo. D. Taylor, Hostler.....	46	170 Johnson street...	Driver.
Joseph Moon, Fireman...	29	287 Battery avenue..	Laborer.
Wm. E. Rodenhi, "	39	99 York street.....	Bricklayer.
David McIntire, "	32	15 Henrietta street...	Can Maker.
John R. Murray, "	28	99 Fort avenue.....	Tinner.
Henry Seebach, "	29	164 S. Charles street.	Stone Cutter.
Levin J. Broadwater, "	32	6 Johnson street.....	Ship Carpenter.
John M. Mullen, "	32	128 Cross street.....	Tinner.
John Iser, "	35	294 Johnson street...	Can Maker.

ENGINE COMPANY No. 13.

(Went in Service March, 1876)

Engine House situated corner Myrtle Ave. and Fremont St.

Has in charge: One Steam Fire Engine; two Four Wheel Hose Carriages; two Reserve Trucks, with ladders; two Fire Extinguishers; six Horses and Harness, with necessary equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
John V. O'Neill, Foreman...	38	393 Pennsylvania ave.	Stove-dealer.
John H. Deal, Engineman..	37	164 Mosher street....	Machinist.
John A. Bannan, Ass't "	36	117 N. Poppleton st..	Machinist.
Edward McGeehan, Hostler.	35	452 N. Fremont street	Driver.
E. C. Keyser, Fireman	30	123 Mosher street ...	Canmaker.
Wm. F. Clabaugh, "	32	287 Argyle avenue...	Painter.
George Bowers, "	27	492 Lexington street	Paperhanger.
James LeDoyen, "	29	62 Woodyear street.	Cigarmaker
Philip Bowen, "	28	170 Pennsylvania ave.	Cigarmaker.
Lawrence Pistel, "	30	Argyle av. and Biddle	Cigarmaker.
James Kelly, "	28	157 Presstman street	Plasterer.
L. C. Campbell, "	32	127 Mosher street....	Shoemaker.

HOOK AND LADDER COMPANY No. 1.

(Went in Service February, 1859.)

Truck House situated on Harrison St., North of Baltimore St.

Has in charge: One Truck; one Reserve Fire Engine; one Wood Tender; two Fire Extinguishers; three Horses and Harness, with all necessary ladders and equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
Henry W. Mears, Foreman..	31	45 N. Gay street.	Undertaker.
John W. Blake, Tillerman ..	43	112 E. Fayette street.	Machinist.
James E. Patterson, Hostler	33	16 Watson street.....	Driver.
John B. Keene, Ladderman.	40	287 N. Eden street...	Carpenter.
Michael Nolan, "	49	28 E. Lombard street.	Driver.
John P. Ward, "	31	1 May street	Driver.
Jas. L. Southcomb, "	30	91 S. Eden street.....	Wire-worker.
Joseph V. Dougherty,"	30	22 N. Caroline street.	Steam-fitter.
John R. Farr, "	31	79 Harrison street....	Driver.
James Disney, "	36	286 N. Gay street....	Painter.
Geo. W. Haskell, "	34	Cor. High & Low sts.	Ship carpenter.
Alex. Chrismer, "	33	47 N. Eden street....	Engineer.
Wm. H. Reilly, "	32	Ensor, near Madison.	Painter.

HOOK AND LADDER COMPANY No. 2.

(Went in Service April, 1859.)

Truck House situated on Paca St., North of Fayette St.

Has in charge: One Truck; two Fire Extinguishers; two Horses and Harness, with all necessary ladders and equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
F. A. Marston, Foreman....	40	117 Townsend street.	Painter.
John G. Gill, Tillerman.....	50	214 Saratoga street...	Painter.
Thos. Montgomery, Hostler.	40	32 N. Paca street....	Driver.
Thomas Wagner, Ladderman	38	6 Diamond street ...	Blacksmith.
E. L. Dorsey, "	43	487 W. Fayette street	Paperhanger.
W. S. Lilly, "	34	231 Saratoga street..	Carpenter.
Wm. R. Lashorne, "	33	108 N. Schroeder st..	Upholster.
John W. Freidhoffer, "	30	92 Hamburg street...	Carpenter.
J. C. Turner, "	35	10 Tessier street.....	Bricklayer.
Edward W. Windle, "	34	80 Amity street.....	Blacksmith.
Paul Hoffman, "	27	255 Biddle street....	Candymaker.
Lewis Pistel, "	25	39 Penn street.....	Diemaker.
Charles Rolf, "	25	30 Marion street.....	Boxmaker.

HOOK AND LADDER COMPANY No. 3.

(Went in Service January, 1871.)

Truck House situated on Ann St., South of Pratt St.

Has in charge: One Truck; two Fire Extinguishers; one Wood Tender; three Horses and Harness, with all necessary ladders and equipments for service.

NAMES.	AGE	RESIDENCE.	OCCUPATION.
T. W. Humphreys, Foreman	60	111 N. Broadway....	Inspector.
John McClellan, Tillerman..	46	141 S. Eden street ...	Sailmaker.
Wm. E. Vanrossen, Hostler.	31	112 S. Ann street....	Driver.
N. Warmsley, Ladderman...	35	115 Lancaster street..	Mariner.
R. B. Hendrix, "	29	80 N. Ann street.....	Mariner.
Geo. Boss, "	37	40 Castle street.....	Cooper.
T. H. Taylor, "	37	Jefferson and Chester	Carpenter.
A. German, "	29	113 Fairmount ave...	Painter.
Louis Roll, "	39	291 S. Wolfe street...	Caulker.
John N. Downs, "	31	410 Orleans street...	Painter.
G. W. Foxwell, "	32	178 S. Ann street....	Ship-carpenter.
S. C. Foster, "	28	79 Cambridge street..	Carpenter.
M. Ament, "	34	171 S. Wolfe street...	Blacksmith.

REPORT

SUPERINTENDENT

POLICE AND FIRE ALARM TELEGRAPH.

LIST OF OFFICERS.

Superintendent :

CHARLES J. McALEESE.

Operators :

HARRY P. LUCAS,
ALEX CRUMMER,
FRANK L. McALEESE,
FRANK J. CORNER.

Lineman :

ROBERT KAIN.

Assistant Lineman and Batteryman :

THOMAS F. BYRNE.

REPORT

BALTIMORE, January 12, 1880.

To the Honorable Board of Fire Commissioners:

GENTLEMEN:

The following report of the condition and operations of the Police and Fire Alarm Telegraph for the year ending December 31st, 1879, is respectfully submitted.

I am pleased to state that during that time we have had very little trouble.

The operators and linemen seemed fully to appreciate the important duties devolving upon them, and have performed their part so well that there has not been the slightest cause of complaint.

Our wires and poles have been thoroughly examined within the past thirty (30) days by lineman Kain, who reports them in very fair condition throughout the city, with the exception of the following streets and alleys where telephone and other wires are on our poles:

Fremont street, Franklin street, Pennsylvania avenue, Charles street, Johnson street, Fort avenue, Park street, Marion alley and Plover alley.

All the fire alarm boxes have also been tested and found in excellent order.

In looking over our lines the city telegraph property does not compare in appearance with that of the Western Union and other telegraph companies. They have their cross-arms, poles, &c., painted, and they present a much better appearance than those of the Police and Fire Alarm Telegraph.

I would, therefore, suggest the propriety of asking from the Mayor and City Council an appropriation sufficient to paint the poles, cross-arms and fire boxes owned by the city. Telegraph poles, at best, are unsightly, and the property of the city should be kept in as presentable condition at least as that of private corporations.

The only extra repairs required to be made during the year was caused by the tornado that swept over a portion of our city on Saturday, June 29th, 1879. Considerable damage was done to private property, and the falling walls and roofs did great damage to our lines within the boundary of Light street and Marsh Market Space, and Frederick street and the wharf.

Although it was late on Saturday afternoon, lineman Kain and assistant lineman Byrne, with two assistants, were promptly on the ground, and by Monday morning everything was in good working order.

There were nine (9) circuits broken at one time and in a number of places, and they deserve much credit for the prompt, efficient and economical manner in which the work was done.

The only changes made in the department during the year were the extension of the Independent circuit

to the residence of assistant lineman Byrne, and the transferring of the Marine Hospital wire from the old to the new poles, from the corner of Charles and German streets, along Lee street to Light street, and thence to Montgomery street.

The old poles were afterwards cut down. During the year, through instructions from the committee on telegraph, telephones were placed in all of the engine houses, truck houses, residence of Chief Engineer and his assistants, for trial. After a test of several months, I reported to the committee their successful operation, which report was accepted by the Board, and they were adopted as part of the system. They have been invaluable to this department in reporting trouble on the lines in the neighborhood of engine houses, and also the non-working of the large gongs, thereby saving very valuable time. Telephones have also been introduced in the Police and Health Departments, and as in case of those in fire service, have proved of the greatest advantage.

Since the construction of the new lines, two new alarm boxes have been added, making a total of one hundred and fifty-two.

Box 416 was placed on the S. E. Corner of German and Greene streets, and box 245 in the Maryland Penitentiary. Box 421, formerly in the Western Police Station, Greene street, was transferred to the N. E. Corner of Pine and Josephine streets.

The city has now in this department about one hundred and eighty (180) miles of wire, divided into twenty-five circuits, twenty for boxes, four engine

house alarms and one independent or telephone and call signal circuit.

No. 1 alarm has five large and three second size gongs. No. 2 alarm, four large, three second size, and two single stroke gongs. No. 3 alarm, two large, three second size, and two single stroke gongs. No. 4 alarm, four large, one second size, and two single stroke gongs.

Our office machinery consists of one three-dial repeater, two automatic repeaters, one switch board, four wrenches for switch board, thirty small galvonometers in use on all circuits, one single-dial repeater for striking large bells, twenty-six gongs, one on each circuit, twenty-five relay magnets, twenty-eight keys all in use, one main circuit register, four local registers, four Morse magnets in use, two dial instruments not in use, six keys for winding repeaters, twenty-six switches in use, three lightning arresters, seven old dial instruments, one old five-circuit switch board, three old police magnets, one old six-circuit lightning arrester, one single-circuit lightning arrester, five old local gongs, one old five-circuit register, one old Water Board magnet, eight old relay magnets, three old eight-inch gongs and magnets, one three-inch gong, one old local and gong attached, four old engine house magnets, five old single switches, and eight old fire alarm keys, one old iron bracket, one iron umbrella holder, one old slate, one letter press, three old dial weights, one pair small plyers and two screw drivers, three independent circuit gongs.

In the Lineman's Department are the following: 600 lbs. of old wire, 300 glass insulators, different kinds, 40 four-wire cross-arms, 45 two-wire cross-arms, 33 T-arms,

3 two-wire trestles for house-tops, 100 long pins, 150 pins, different sizes, fifty brackets, one building reel, two digging irons, three seven-foot shovels, five five-foot shovels, two pike-poles, one cant-hook, one grindstone, one block and fall, with one hundred feet one-half inch rope, one hundred feet of small rope, one torch with pole, one pair of trimming shears, one hundred pounds of spikes, one hundred and fifty pounds of bolts for cross-arms, twenty-five rubber hook insulators, one soldering pot, one tool bag, one pair climbers, two straps and vises, one single vise, one rachet brace, eight bits, different sizes, six gimlets, two pair plyers, one monkey-wrench, one iron drill, nine old drawing knives, two axes, two hand axes, one hatchet, two small hand-saws, two soldering irons, one large screw-driver, two gallons of Linseed oil, two paint brushes, besides a number of screws, charcoal, old office wire, solder, corner irons, rubber tubing, &c.

In the Battery Department there are at present 19 bbls. of blue stone, 1590 new coppers, 20 new zincs, 1041 cells of Calland battery, 64 cells of enduring battery, 1 hatchet, 4 pieces sponge, 2 new zincs of No. 2 Battery, 36 new zincs, of No. 3 Battery, 8 coppers, 9 zincs Chester Battery, 36 coppers, 25 old zincs, Daniel's Battery, 40 lbs. old brass screws, 25 lbs. old zincs, No. 2 Battery, 600 iron covering plates for batteries, 3 old open circuit keys, 2 paper reels, 10 old magnets, 2 old police magnets, 100 old Daniel's porous cups, 100 Daniel's glass jars, 70 glass tubes for No. 2 Battery, 15 glass jars, 20 zincs, Daniel's Battery, 3 old coppers, 1 copper scoop, 1 copper watering pot

The following material has been used for repairs, guying and other purposes: 6135 feet of old wire, 74 insulators, 4 old poles, 10 brackets, 21 rubber hooks, 27 two-wire cross-arms, 5 T-arms, 1 corner iron, 6 two-wire trestles, 1 sixteen-foot fixture, 15 pins.

One hundred and fifty-two alarms of fire passed through this department during the year 1879.

The operators in this department are—

H. P. Lucas,

Alex. Crummer,

F. J. Connor,

F. L. McAleese,

Lineman, Rob't T. Kain.

Assistant Lineman and Batteryman T. F. Byrne.

In several of the large cities, fires have occurred within the past year in hotels, theatres and other public buildings, in one or more instances causing loss of life.

There should be some provision made for the better protection of life in places of this kind, and no better plan could be adopted than the placing of a fire alarm box in each of them. The Fire Department would then know the exact location of the fire, and would lose no time getting to the spot; but as it is now, the alarm must be turned in from one of the nearest street boxes, which, in most cases, are a block or two away from such building, and likely to carry the engines out of the way, thereby causing the loss of several minutes of valuable time in which many lives might be lost.

The Board of Directors of the Maryland Penitentiary appreciating the danger of fire in that Institution, have had box 245 placed in their office, for the better protection of the lives of the inmates and the property under their charge.

In conclusion, I must return my thanks to the operators and linemen, to the members of the Police and Fire Department, and others, to whom I am indebted for assisting in the proper working of the department.

Yours respectfully,

CHAS. J. MCALEESE,

Supt. of Police and Fire Alarm Telegraph.

DO NOT CIRCULATE

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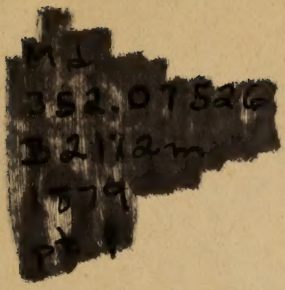

DO NOT CIRCULATE